| BD 106 657 | 95 | CE 003 854 |
|-----------------|---|---|
| AUTHOR TITLE | Essex, Duane W.; Liu, Chen A Methodology to Assess the Affective and Descriptive the Work Environment. Rese No. 98. | e Content and Structure of |
| INSTITUTION | Ohio State Univ., Columbus Technical Education. | • Center for Vocational and |
| SPONS AGENCY | National Inst. of Educatio D.C. | n (DHEW), Washington, |
| PUB DATE | Dec 74 | |
| CONTRACT | NE-C-00-3-0078 | |
| NOTE | 162p. | · |
| AVAILABLE FROM | Superintendent of Document Printing Office, Washingto given) | |
| EDRS PRICE | HF-\$0.76 HC-\$8.24 PLUS PO | STAGE |
| DESCRIPTORS | *Affective Tests; Associat *Association Tests; *Attit Data Processing Occupation *Evaluation Methods; Job S | <pre>ion (Psychological); ude Tests; Auto Mechanics; s; Employee Attitudes; atisfaction; Need de; Response Style (Tests);</pre> |
| IDENTIFIERS | *Work Association Test | |

ABSTRACT

The study describes an exploratory effort to develop procedures and techniques to assess work-relevant affect. A stimulus word list, consisting of 211 words in 10 work and one miscellaneous categories, was tested on 10 female secretaries and 10 male auto mechanics to determine from their single-word responses the hierarchical structure of work environment categories. Since the test did not produce a meaningful associative map of the work environment, the stimuli were converted from single words to 40 phrases in seven categories. The phrase stimuli were tested on 19 male auto mechanics, 19 female secretaries, and 19 computer data processors (14 males) with the aim of deriving stimulus meaning from their multiple word associative responses themselves by means of content analysis. The response distributions for each occupation are discussed in the text and tabularly displayed by stimulus phrases and each of 13 derived response categories. The test results indicate that people associate positive affect with the work environment, which the report considered as general support for a positively valenced work ethic. One-half of the document contains appendixes describing the word association instruments, and the response distributions pooled by stimulant and frequency for each of the two tests. (JR)



Research and Development Series No. 98

A METHODOLOGY TO ASSESS THE CONTENT AND STRUCTURE OF AFFECTIVE AND DESCRIPTIVE MEANINGS ASSOCIATED WITH THE WORK ENVIRONMENT

Duane W. Essex

and

Cheng C. Liu

US OEPARTMENT OF HEALTH EQUCATION & WELFARE NATIONAL INSTITUTE OF EQUCATION THIS DOCUMENT HAS BEEN REPRO DUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGIN ATING IT POINTS OF VIEW OR OPINIONS STATED DO NDT NECESSARILY REPRE SENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

LE 003 854

The Center for Vocational Education The Ohio State University 1960 Kenny Road Columbus, Ohio 43210

December 1974

For sale by the Superintendent of Documents, U.S. Government Printing Office, Weshington, D.C. 20402





E 1.0000 7

THE CENTER MISSION STATEMENT

. **

The Center for Vocational Education intends to increase the ability of diverse agencies, institutions, and organizations to solve educational problems relating to individual career planning and preparation. The Center fulfills its mission by:

- * Generating knowledge through research
- * Developing educational programs and products
- * Evaluating ind:vidual program needs and outcomes
- * Installing educational programs and products
- Operating information systems and services
- Conducting leadership development and training programs



An Interim Report On a Project Conducted Under Contract No. NE-C-00-3-0078

This publication was prepared pursuant to a contract with the National Institute of Education, U.S. Department of Health, Education and Welfare. Contractors undertaking such projects under government sponsorship are encouraged to express freely their judgement in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official National Institute of Education position or policy.

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

National Institute of Education



FOREWORD

Assessment of work-relevant affect is a continuing priority in vocational education. Knowledge and understanding of the ways in which workers approach their jobs, their co-workers, and the entire work environment is vital for providing relevant and effective job preparation. These non-technical variables help to determine those aspects of the work-a-day world which are viewed negatively and those which are reasonably rewarding and contribute to the worker's satisfaction and success on the job.

This study was an exploratory effort in the use of word association procedures to assess the affective and descriptive meanings workers associate with their work environments. It was conducted as part of a long-range, programmatic research and development program at The Center, the purpose of which is to develop systematic guidelines and procedures for the derivation of curriculum content. Procedures and guidelines now under development by The Center's "Methods for Curriculum Content Derivation" program will aid developers of vocational curriculum and occupational training programs to accurately identify occupational requirements and to select curriculum content which most warrants formal training consideration.

This report of the methods developed for assessing work-relevant affect, and the initial results of their exploratory use, should be of particular interest to vocational and career educators striving to better provide students with the knowledges and skills to cope with the interpersonal, affective dimensions of work. It should also provide curriculum developers and training directors in vocational education, business, industry, and government with information about and clues for promising approaches to the identification of relevant job content for training. It is especially hoped that the report will stimulate interest and dialogue among vocational researchers and developers, and contribute to the continuation of investigations of alternative approaches to the assessment of work-relevant affect.

Many people have contributed to the work leading to the development of this report. In par ticular, The Center is indebted to the authors, Duane Essex, research associate, and Cheng Liu, former research specialist at The Center and currently assistant professor at the State University of New York, Buffalo, New York. The Center also expresses its appreciation to the employers and supervisors of the several businesses and public agencies in the Columbus metropolitan area for their cooperation in the study and to the 29 automotive mechanics, 29 secretaries, and 19 computer data processors who participated in the study.

The Center expresses appreciation to Dr. Robert B. Frary, Coordinator of Research, College of Education at the Virginia Poly echnic Institute and State University for his critical review of the manuscript prior to final revision and publication.

Robert E. Taylor Director The Center for Vocational Education





TABLE OF CONTENTS

.

| | | * * | | | Page |
|-----------------------------|------------------------------------|------------|-------------|------------|------|
| FOREWORD | | | | • • •; • • | iii |
| LIST OF TABLES | •••• | ••• | •,•••,• | • • •, • • | ix |
| LIST OF FIGURES | | | | • • • • • | xi |
| CHAPTER | | | | | |
| CHAPTER | | | | | |
| I. Importance of Affect an | d Its Assessment i | n Career | Education | | 1 |
| Affect in Career Ed | ucation | 10 (aa. | | | 1 |
| | gnition | | | | 2 |
| | | | | | 2 |
| | re Affect | | | | 3 |
| Affective Measurem | | | | | 4 |
| | Affect | | | •••• | 4 |
| • • | s and Career Goal | | • • • • • | • • • •, • | 6 |
| | ement and Ethics | | | | 6 |
| Word Association a | | | | | 7 |
| | | | | | 7 |
| | gnition in Associa | | | | |
| • | Associative Dom | | | | 8 |
| | ord Associations . | | | | 8 |
| Focus of Present In | vestigation | ••• | • • • • • | | 9 |
| II. Stimulus Word List Deve | lopment | | | | 11 |
| Selection Criteria. | | | | | 11 |
| Work Categories . | | | | | 11 |
| Review | | | | | 13 |
| | | | | | |
| - | · · · · · · · | | | | 19 |
| | ord Association . | | • • • • • | | 19 |
| | | | • • • • • | • • • • • | 19 |
| Associative Ma | ips | • • • | • • • • • | • • • • • | 19 |
| | tions | ••• | • • • • • | • • • • • | 20 |
| Method | • • • • •, • • | • • • | | • • • • • | 20 |
| Subjects | | • • • | • • • • • | • • • • • | 20 |
| Materials | | • • • | | | 20 |
| Procedure . | | | | • • • • • | 21 |
| Results and Discuss | ion $\ldots $ $_{\infty}$ \ldots | | | | 23 |
| Factor Analys | es | | | | 23 |
| Content Analy | vsis | | • • • • • • | | 23 |
| Summary | | | | | 26 |



è .

----- × •

Page

| IV. | Stimulus Phrase List Development |
|----------|--|
| | Summary |
| ۷. | Experiment II |
| | Use of Response Word Categories |
| | Research Questions |
| | Method |
| | Subjects |
| | Instrumentation |
| | Procedure |
| | Results and Discussion |
| | Categories and Meaning |
| | Occupational Comparisons |
| | Summary |
| VI. | Summary, Conclusions, and Recommendations |
| | Summary |
| | Stimulus Word List Development |
| | Experiment I |
| | Phase List Development and Use in Experiment II 68 |
| | Limitations of the Present Investigations |
| | Conclusions |
| | Recommendations |
| APPENDIC | ES |
| APP | ENDIX A |
| | A 1 Experiment I. Mard Association Data Collection |

,

| A-1 | Instrument, Single Word Format | 77 |
|------------|---|-----|
| A-2 | Experiment I: Response Distribution Pooled by Stimulus Word and Frequency | 88 |
| A-3 | Experiment I: On Single Word vs. Sentence Stem Format and the Use of Adjective Stimuli | 95 |
| APPENDIX B | | |
| B—1 | Experiment II: Word Association Data Collection | 101 |
| B-2 | Experiment II: Response Distributions Pooled by Stimulus Phrase and Frequency | 111 |



•

vi

Page

| B-3 | Experiment II: Automotive Mechanics' Response Distribution, by Stimulus Phrase and Frequency | 123 |
|------------|---|-----|
| B-4 | Experiment II: Computer Data Processors' Response Distribution, by Stimulus Phrase and Frequency | 132 |
| B—5 | Experiment II: Secretaries' Response Distribution, by Stimulus Phrase and Frequency | 138 |
| REFERENCES | ». • • • • • ». • • • • • • • • • • • • | 153 |

.

•

١



•;

National Science

9

•,

LIST OF TABLES

| Table | | Page |
|-------|---|------|
| 1 | Total Stimulus Word List | 15 |
| 2 | Work-Related Stimulus Words Used in Experiment I | 18 |
| 3 | Response Distributions for Primary Factor 7 Stimulus Words | 25 |
| 4 | Response Distributions for Stimuls Word "Influence" | 26 |
| 5 | Stimulus Phrases for Work Categories | 31 |
| 6 | Pooled Response Distributions for Seven Selected Stimulus Phrases: By Work Category and Frequency of Response | 41 |
| 7 | Responses to Work-Related Phrases Representing Job Content: By Occupation, Category, and Frequency | 43 |
| 8 | Responses to Work-Related Phrases Representing General Need Satisfaction: By Occupation, Category, and Frequency | 47 |
| 9 | Responses to Work-Related Phrases Representing Working Conditions: By Occupation, Category, and Frequency | 52 |
| 10 | Responses to Work-Related Phrases Representing Supervision: By Occupation, Category, and Frequency | 54 |
| 11 | Responses to Work-Related Phrases Representing Company & Union: By Occupation, Category, and Frequency | 56 |
| 12 | Responses to Work-Related Phrases Representing Compensation: By Occupation, Category, and Frequency | 57 |
| 13 | Index of Affective Dominance: By Occupation, Work Category, and Stimulus Phrase | 59 |
| 14 | Response Categories and Their Percent of Use | 69 |



.

¢

LIST OF FIGURES

| Figure | | Page |
|--------|--|------|
| 1 | Design for Experiment I . 🐰 | 22 |
| 2 | Hierarchical Factors with Variables Loading .2956 or Above | 24 |





••

•

CHAPTER I

IMPORTANCE OF AFFECT AND ITS ASSESSMENT IN CAREER EDUCATION

Affect in Career Education

There is growing awareness among educators and researchers that the affective dimensions of human development must be given more adequate emphasis in career education. Educational programs have traditionally concentrated on the development of cognitive skills and have not adequately emphasized development of the student as a "whole person." Increasingly, students are being recognized as having broad spectrums of developmental needs, including both cognitive and affective needs (King, 1971; Midjaas, 1970; Woolley, 1970).¹ In spite of a lack of general agreement on the definition of affer ^, affect is viewed as a very important and complex part of human and vocational development that must be understood if career education is to be effective education.

There are two especially important reasons for increasing educational emphasis on the total person. First, there is the recognition that affect and cognition are closely related in the classroom. Some experts even argue that affect and cognition are practically inseparable. As a result, educators now advocate a broader set of educational objectives. Second, job performance has often been found to be a function of certain affective skills and attributes, such as ability to work in close cooperation with others and attitude toward the work performed.

Consequently, research efforts have become increasingly concerned with identifying those workrelated affective skills and attributes that are developed in the educational process, especially those that are related to job success; but clear, reliable identification has not yet been attained. Thus, it is imperative that such clear identification be accomplished first in order to provide career educators with initial affective goals.



¹ It is also possible to distinguish the psychomotor, or behavioral aspect of development from the affective and cognitive dimensions (Krathwohl, Bloom & Masia, 1964). Research has indicated that behavior is an important variable in the development of cognition and affect. For example, Breer and Locke (1965) have shown, in a series of studies, that successful performance of a task will influence a subject's attitude toward that task as well as facilitate the development of concomitant cognitive skills. However, as Fishbein and Ajzen (1972, p. 523) pointed out in a review of the literature, the conditions under which behavioral performance vill change beliefs, attitudes, or intentions are still unknown. The relationship of the psychomotor aspect of development to cognition and affect remains, therefore, an important question and is deserving of further research. However, this question was outside the scope of this study which was concerned with the identification and explication of affect and its dimensions. As discussed below, this study included the identification of certain cognitive components but did not attempt to identify related psychomotor components.

Affect and Cognition

A major reason for growing emphasis on the whole person in career education is the avareness that affect is inextricably related to cognition. Although the exact nature of the affect-cognition relationship is not clear, considerable data have been accumulated to indicate that affective development in areas such as interests, attitudes, and values is related to cognitive experience. After summarizing much of the literature concerning attitude formation, Fishbein and Ajzen (1972) concluded that there is widespread agreement that "a person's attitude toward an object is related to his beliefs about it" (p. 507). This is true whether the attitude object is a person, an issue, or a behavior. This correlation between feeling and belief has been supported by research conducted in the classroom and on the job. Leonard (1972) investigated the affective-cognitive consistency of values held by college students and reported a moderate degree of relationship between cognitive and affective components of their attitude structure. In a study at the high school level, Gable and Roberts (1973) found that cognitive and affective variables were correlated and when combined could account for 32% of variation in student grades. Similarly, but in a job-related context, Kazanas and Wolff (1972) summarized research concerning development of work habits in vocational education and concluded that successful vocational students not only demonstrated required psychomotor skills, but also had developed effective work habits such as ability to handle directions, wholesome attitude toward work, pleasing personal manner, poise, and self-assurance. This is an example of what Hartup (1973) pointed out as mounting evidence that academic competence may not be a sufficient condition for enhancement of the student's school success. Finally, at the elementary school level, Kifer (1973) found academic performance to be related to the development of affective traits and pointed out the complex interactions between demands for academic achievement in school and the personal development of the learner. Much of this evidence strongly implies that affective behaviors develop when appropriate learning experiences are provided much the same as cognitive behaviors develop from appropriate learning experiences (Krathwohl, Bloom & Masia, 1964).

Educators have reacted to this growing body of literature by attempting to formulate a new, broader range of educational objectives. They have introduced wholistic concepts such as "confluent education," representing the integration of affective and cognitive elements (Brown, 1971), and "life career development," which includes such career guidance goals as (a) self-knowledge and interpersonal skills, (b) career planning i nowledge and skills, and (c) knowledge of the work and leisure worlds (Bingham, 1972). These concepts focus on the need to establish comprehensive educational goals that will help develop both cognitive and affective attributes and skills.

Affect and Job Performance

A second major reason for the increasing focus on the educational development of the whole person is that job satisfaction, general adjustment skills, and attitudes toward work have been recognized as major factors in successful job performance. In a review and synthesis of the literature on occupational adaptability Sjogren (1971) noted that the adaptability of the worker to a new situation is related to many factors in the work environment other than the ability requirements of the work. These include job satisfaction and attitude regarding such variables as (a) content of the work, actual tasks performed, and control of work, (b) direct supervision, (c) the employing organization and its management, (d) opportunities for advancement, (e) pay and other financial benefits, (f) co-workers, and (g) working conditions. In a survey of 642 workers selected from multiple occupations,



Garbin, Salomone, Jackson, and Ballweg (1970) reported that while 46.7% of the sample identified technological skill as the most difficult thing they had to learn, they also listed interpersonal (19.2%), personal (14.8%) and organizational (4.3%) factors as adjustment obstacles. Kazanas and Wolff (1972) bluntly pointed out that if the worker cannot adjust to the non-technical requirements of the job he is likely to be dismissed.

It is not clear to what extent successful work attitudes and general adjustment skills are a function of the worker's past learning history and to what extent they are a function of the work environment itself. But it is clear that successful job performance depends upon what has been termed a correspondence between the individual and the environment (Dawis, Lofquist & Weiss, 1968) and, just as clearly, that both affective and cognitive variables are involved in that correspondence.

Reflecting this concern, research organizations have begun to explicate affectively-based work problems to which the educator should address himself. The Career Education Developmer. (Task Force of the National Institute of Education (1973) hypothesized that the lack of general skills and attitudes was a major work entry problem and identified important research issues such as:

Present youth attitudes toward work, by socioeconomic, rural-urban, regional, and racial or ethnic groupings, the conditions under which they will or will not work; the extent of their desire to work; what they find to be relevant in work-related education (p. 67).

The sorts of characteristics that employers appreciate in employees; this has become important within the last several decades because of economic shifts from manufacturing and agricultural to public, non-profit service employment. (p. 63).

These concerns emphasize the need to identify and develop those work-relevant attitude and adjustment skills that facilitate the worker's initial job performance. In addition, the report by the Special Task Force to the Secretary of Health, Education, and Welfare (Work in America, 1972) indicates that educators must become aware of existing on-the-job attitudes because discontented workers are a substantial problem in the work environment.

Need to Measure Affect

Broad conceptualizations such as "confluent education" and interpersonal adjustment represent initial reactions to the evidence that affective development is concomitant with technical instruction in the classroom and that there are certain affective, adaptive mechanisms which facilitate job entry and success. But, little empirical evidence is available to identify the particular affective changes that occur in the classroom. Furthermore, little hard data are available concerning those affective attributes and skills that are actually used by workers in the course of successful job performance.

There are, however, some research findings that begin to outline the more general affective factors involved in both school and job adjustment. For example, Pucel (1972) reported that student interest and personality were related to the successful training of post-secondary vocational and technical education students. Walther (1970) reported the factor analysis of a self-report inventory that





was constructed to measure work-relevant attitudes. Optimism, unsocialized attitudes, and self-confidence emerged as three important work-relevant attitudes. Rosen (1972) reported the reinforcer characteristics of 67 occupations, based on the responses from over 2000 workers, and predicted job success on the basis of the degree to which the individual's work personality matched the work environment. Work personality included such affective dimensions as a worker's feeling about recognition, authority, autonomy, co-workers, and responsibility.

However, more specific and systematic data are needed. Affective objectives require clear goals which in turn require detailed information concerning work-related affective components. Without clear-cut behavioral objectives, educational goals are often discarded (Wight, 1971). Thus, an instrument sensitive to multiple components of affect is needed, one which will outline the spectrum of affect that an individual assigns to the environment: an instrument that will indicate the affective meaning of the environment.

Affective Measurement

The lack of appropriate measurement techniques to assess the range of affective meaning assigned to the work environment has been a barrier to a concise delineation of the affective skills needed by workers. One reason for this is the complexity of the affective domain, and its intrinsic relation to the cognitive domain. The ties between the two domains make it difficult and, perhaps, inadvisable to measure components of affect only, as existing instruments usually do. An appropriate measure should reveal the pattern of affectivity and the relationship of that pattern to the cognitive domain. A second reason for the above mentioned barrier is the lack of agreement at present on what in the affective domain should be assessed. A third reason is that, because affective development has traditionally been considered outside the scope of school-based education, there has been little impetus to assess affective changes that are related to classroom instruction. While this dated view is changing, there remains the problem of ensuring that relevant dimensions of affect are developed and assessed in the classroom and at work. Each of these three reasons for the lack of an appropriate technique or procedure to assess affect is discussed below.

Complexity of Affect

While some definitions of affect have been limited to "a general evaluation or feeling of favorableness toward the object in question" (Fishbein & Ajzen, 1972, p. 493), a more global, multifaceted definition is generally attempted. For example, Roberts (1972) stated that affective education attempts to educate the emotions and listed personal awareness, creative behavior, interpersonal awareness, subject orientation, and affective styles of learning as some important categories to consider when planning affective experiences in the classroom. This latter approach is an attempt to exhaustively outline the affective domain. Perhaps the most comprehensive and concise example of this approach is Krathwohl, Bloom, and Masia's (1964) attempt to derive a taxonomy of affective educational objectives. They included five categories of affect and gave examples of educational objectives and test items which illustrate each category. These categories and their subdivisions are:

- 1.0 Receiving
 - 1.1 Awareness
 - 1.2 Willingness to receive
 - 1.3 Controlled or selected attention



2.0 Responding

- 2.1 Acquiescence in responding
- 2.2 Willingness to respond
- 2.3 Satisfaction in response

3.0 Valuing

- 3.1 Acceptance of a value
- 3.2 Preference for a value
- 3.3 Commitment (conviction)

4.0 Organization

- 4.1 Conceptualization of a value
- 4.2 Organization of a value system
- 5.0 Characterization by a value or value complex
 - 5.1 Generalized set
 - 5.2 Characterization

These categories approximate a continuum of affect under the organizing principle of internalization. Krathwohl et al. (1964) defined internalization as a "process through which there is at first an incomplete and tentative adoption of only overt manifestations of the desired behavior and later a more complete adoption" (p. 29).

Krathwohl et al. (1964) emphasized the fundamental unity of the person and noted that their attempt to delineate the affective area separately from the cognitive was not intended to suggest that there was a fundamental separation: "There is none" (p. 45). They listed examples of cognitive overlap with each category of affect and noted that educational goals in one domain can be viewed as a means to the attainment of a goal or objective in the other. "In some instances we use changes in the cognitive domain as a means to make changes in the affective; e.g., we give the student information intended to change his attitude. In other instances we use an affective goal as a means to achieve a cognitive one; e.g., we develop an interest in material so the student will learn to use it" (Krathwohl et al., 1964, p. 54). Focusing on the environment, Wight (1972) further pointed out the complexity of affect by indicating the multiple objects of affect found in education: self, others, society, learning, work, leisure time, aesthetics, the natural world, and life. In addition, Wight noted that affect is present with cognitive and psychomotor activity.

Thus, it can be argued that any method purporting to measure affect must be addressed to a multifaceted domain. However, present methods are often based on a unitary conception of affect such as the positive or negative evaluation (usually termed attitude) associated with some psychological object (e.g., Fishbein & Ajzen, 1972; Murray, 1971; Edwards, 1957). Although the semantic differential technique (Osgood, Suci, & Tannenbaum, 1957; Osgood, 1969) was devised to measure multiple dimensions of affect, it has generally revealed only the primary factor of evaluation and the secondary factors of potency and activity. Neither the methods based on a unitary conception of affect, nor the semantic differential technique, attempt to relate subjects' responses to the cognitive domain.



Affective Skills and Career Goals

A second reason for the lack of methodology and instrumentation to measure affect is that there is little agreement on what should be assessed: there is little agreement on what affective skills a worker actually needs to facilitate his interaction with the work environment. As Brandes (1973) pointed out, lack of agreement on educational goals has always been problematic in traditional subject areas, but is much more problematic in establishing goals relative to such affective components as interests, attitudes, and values. For example, when the teacher wishes to prepare students to effectively make the interpersonal, personal, and organizational adjustments to work that Garbin et al. (1970) reported as normal work entry problems by what criteria can the teacher decide between (a) development of self-knowledge and interpersonal skills, as part of Brown's (1971) concept of life career development, or (b) development of optimism, socialized attitudes, and self-confidence, the three important work-relevant attitudes empirically derived by Walther (1970)? Although it could be argued that both concerns should be a focus for the teacher, it is clear that job-related affective skills need sharp empirical definition before agreed-upon affective objectives are established. Consequently, an instrument is needed which will clearly define and assess the affect associated with career development needs.

Affect Measurement and Ethics

A third important reason for the lack of techniques and instrumentation designed to measure the affective domain was given by Tyler (1973):

There are two main principles that should be carefully considered in reviewing proposed objectives in the affective domain. One is the political principle that the function of the school in a democratic society is to help the student gain the means for increasing independence in judgments and action, and not to indoctrinate particular political or sectarian views. The other is the ethical principle that each individual has a right to privacy not to be invaded by the school. (p. 3)

Tyler noted that the school must be prepared to justify every major objective in terms of values widely accepted by the lay public or expressly stated in the constitution and statutes, and he cited the National Assessment Project report (e.g., "ethical and dependable in work, school, and social situations," Tyler, 1973, p. 6), as an example of socially approved affective goals. An example of this position is represented by the Utah State Board of Education (1971) which adopted only those affective objectives that had social justification. The board issued a prospectus which identified basic social values, behaviors, and understandings and developed two purposes: (a) to guarantee the relevancy of programs for each student, and (b) to provide a usable pattern for an organization by which each teacher can assist students in building better citizenship.

It is clear that ethical considerations should continue to guide instrument development. Therefore, it is necessary that assessment of affect be focused on those skills that prepare the student to successfully cope with the work environment and increase the independence and "freedom of the individual to make his own choices, to develop his own belief system, and to experience and express his own feelings" (Tyler, 1973, p. 4).



Careful selection of educational objectives, cognitive or affective, should be followed by further research. For example, Krathwohl et al. (1964) pointed out that research should continue and should be directed toward understanding the underlying process by which individuals undergo change in the affective domain, and toward continued questioning, by philosophers as well as behavioral scientists, as to what changes are desirable and appropriate. Further, Krathwohl et al. (1964) noted that "if we obscure the objectives in the affective domain and bury them in platitudes, how can we examine them, determine their meaning, or do anything constructive about them" (p. 91)?

Thus, the complexity of affect and the need to account for its relation to cognition, the lack of agreement on what are work-relevant affective skills, and ethical concerns over the violation of civil rights have all combined to inhibit development of much needed methods to accurately measure the dimensions of affective and cognitive meaning that workers assign to the work environment. What is needed is a set of systematic techniques and methods that will identify and assess (a) the multiple dimensions of work-related affect and their relation to the concomitant cognitive meanings of the work environment, (b) those affective dimensions relevant to career success, and (c) affective dimensions which facilitate self-development. The development of a viable methodology to meet these goals was the focus of the present investigation.

Word Association and Assessment of Affect

Self-report procedures are prohably the most widely used and most successful methods of determining the nature of affect associated with the work environment (Tyler, 1973), and workers who are satisfactorily performing their jobs are probably the best source of information. Given the broad methodological goals of this investigation, the word association paradigm seemed a most appropriate method of self-report. Past research has indicated that word associations represent a broad semantic range of both affective expressions toward and cognitive descriptions of a stimulus. Moreover, research findings indicate that the specific associative response domain (e.g., the work-related associative domain) from which responses are elicited can be partially determined by the instructions given to subjects in a word association task. Also, various dimensional analyses of word association responses have been used to define and map the interrelationships between multiple semantic components. These various issues are discussed below and it was propored that the present investigation use word association procedures to identify the multiple components of affect which workers associated with their work environment.

Affect and Cognition in Associative Responses

Associative techniques, in which the subject must respond to a stimulus by giving the first word, image, or thought that occurs to him, have been used successfully in explicating both affective and cognitive mental processes. As early as the end of the 19th century in Germany, Wundt introduced associative techniques into his psychological laboratory in an attempt to explore mental processes. Another of the earliest systematic uses of word association to study affective processes was stimulated by the psychoanalytic movement. Jung (1910) described an associative method in which selected stimuli, which would elicit responses from underlying "emotional complexes," were presented to subjects. This approach to identifying affective dimensions was further developed by Rapaport, Gill, and Shafer (1946) to analyze such characteristics as proportion of common or popular



7

responses, reaction times, and associative disturbances in an attempt to detect those emotional conflicts which impaired thought processes. More closely related to the present study, Wyman (1925) used a word association technique to appraise interest and attitudes among gifted children, responses being scored with reference to "intellectual interest," "social interest," and "activity interest." More recently, Terwilliger (1964) used free association responses to predict affect. Pollio (1963) argued that the broad psychological meaning of a stimulus word is a function of its conditional or affective meaning and that associations will, in part, reflect that meaning.

The predominant use of associative techniques has been to reveal the more cognitive aspects of stimuli in which associations are viewed as objective or denotative descriptions and affective responses usually comprise a small proportion of the total responses (e.g., Nunnally & Hodges, 1965; Laffel & Feldman, 1962). Research in the cognitive domain has indicated that a wide range of descriptive associations are elicited by most stimuli.

Restricting the Associative Domain

Associative techniques have been used to explicate specific psychological domains. Jung (1910) and Rapaport, Gill, and Shafer (1946) selected stimuli that had relevance to the psychoanalytic framework and elicited responses appropriate to the psychosexual development of the subject. In addition to the stimuli used, instructions given to subjects have been successful in modifying associative responses. For example, Horton, Marlowe, and Crowne (1963) found that instructions to subjects to give words that "most people would give" increased the number of responses when compared to the performance of subjects under conditions of standard instructions.

Analysis of Word Associations

It has been suggested that associations derive in whcle or in part from structures or categories of mental processes (Deese, 1962). It is usually true that associations exist in well-organized and, in some instances, tightly organized networks. This has been true in studies of free recall data (Deese, 1960), associative clustering (Jenkins & Russell, 1952), and category clustering (Bousefield, 1957). Indeed, dimensional analysis techniques such as hierarchical cluster analysis (Henley, 1969) or factor analysis of matrices of associative response overlap measures (Rotberg, 1968) have outlined multiple semantic dimensions of particular association networks. Such studies provide support for the conceptualization of multiple systems or substructures within the associative domain and suggest that such structures can be identified.

Use of the word association paradigm seemed germane to the present research goals. The use of appropriate stimuli and instructions should elicit a wide range of associations from workers concorning the affective and cognitive meaning of the work environment, and dimensional analysis should reveal the pattern of relationships between affective and other cognitive components. Accomp'shment of these goals would provide educators, curriculum developers, and researchers in education with a methodology to identify the interests, attitudes, and values that are associated with success in career education programs and on the job.



Focus of Present Investigation

The present study was primarily an exploratory effort to develop procedures and techniques to assess work-relevant affect. It was not an attempt to systematically apply those methods to identify and measure the spectrum of affective meanings and skills needed by the worker to ensure job success. More specifically, this effort was confined to questions and hypotheses concerning the efficacy of certain word association procedures to reveal the patterns of affect and cognition that workers assign to their environment. The present study was, therefore, limited in the sense that it would not complete the bridge needed between awareness of the importance of affect in career education and the establishment of clear affective objectives in the classroom. In the final analysis the concerned educator or curriculum developer must place this information in a coherent theoretical framework which accounts for the positive or negative affect that emerges from person-environment interaction. It is only then that they can begin to formulate the learning experiences necessary to achieve important affective objectives in the classroom.



CHAPTER II

STIMULUS WORD LIST DEVELOPMENT

It was essential to this investigation that the list of stimulus words presented to workers be representative of a comprehensive list of factors or categories within the work environment. This chapter reports the guidelines used and the development of such a stimulus word list. The stimulus word list subsequently was used in the conduct of two related studies.

Selection Criteria

The first criterion for including a word in the stimulus word list was that it be work-related in its meaning. To select appropriate stimulus words for the studies, work was defined as an activity in which people usually engage for pay, that is central to personal development and total life adjustment, and that is a situation for satisfying needs (Lofquist & Dawis, 1969, p. 11).

A second criterion was that stimulus words be in the noun form wherever possible. Verb and adjective forms were used to supplement nouns when they more clearly communicated a work-related meaning. There were two reasons for emphasizing the noun form in stimulus word selection. First, the noun form was felt to provide the clearest labeling of entities within the work environment and to be less ambiguous to subjects. Second, nouns elicit primarily paradigmatic associations, associations in which the stimulus and response fit a common grammatical paradigm (Cramer, 1968, pp. 68-71; Deese, 1962, pp. 103-105). This grammatical homogeneity removes some ambiguity of meaning attached to responses.

A third criterion was that each stimulus word be representative of an empirically-based work factor or work category related to job attitudes.

Work Categories

In a review and summary of some 150 studies, Herzberg, Mausner, Peterson, and Capwell (1957, pp. 31-42) identified the following ten major on-the-job categories (listed in order of the number of times each was mentioned in the reviewed studies):

Intrinsic Aspects of Job: Including all of the many aspects of the work itself, aspects which would tend to be constant for this work regardless of where the job was performed.

Supervision: Including relationships of the worker with his immediate supervisors.

Working Conditions: Including physical aspects of the environment.



11 [21

<u>Compensation</u>: All sources of reward other than interpersonal, including the following subcategories: Pay, consisting of wages and any other financial return for hours worked; and <u>Benefits</u>, consisting of monetary and other objective rewards not directly associated with the wage earned.

<u>Promotion</u>: Including sources of betterment of economic position, organizational stature, or professional standing.

Security: Including prospects of continuous employment and adequate income.

<u>Company and Management</u>: Including aspects of the worker's immediate situation which are a function of organizational administration.

Social Aspects of Job: Including relationships of worker with other employees.

<u>Communication</u>: Including aspects of the job situation involving the spreading of information in any direction within the organization.

<u>Benefits</u>: Including policies that prepare the worker for emergencies, illness, old age, and hospitalization, holidays, leave, and vacation.

This list of work categories was felt to be largely representative of categories reported by numerous subsequent investigations (Roach, 1958²; Vroom, 1964; Scott, 1967; Robinson, Athansiou, & Head, 1969). However, the <u>Communication</u> category did not prove to be highly replicable (Peay & Wernander, 1969). Further, Roach (1958) and Beer (1964) both reported evidence of a factor they called "basic need satisfaction" that appeared to overlap the Herzberg et al. (1957) "intrinsic aspect of the job" factor, and to incorporate their "social aspects of job" and "security" factors. Roach (1958) also reported several work factors, including those factors labeled "co-workers," "jobsecurity," "freedom from work rules," "pride in company," and "development and advancement." These factors were, in essence, reported by Beer (1964) under a different descriptive framework. Specifically, Beer (1964) investigated the relationships among four leadership climates, motivation, perceived opportunity, and actual satisfaction of a hierarchy of needs as described by Maslow (1954). This hierarchy of basic needs includes;

<u>Security</u>: The desire for a predictable, structured, and reliable environment. The desire for ''fairness'' and a familiar non-threatening environment.

È

Social: The desire for belonging. The desire for association, for acceptance by one's fellows, for giving and receiving friendship and love.

Esteem: The desire for reputation or prestige (defining it as respect or esteem from other people), status, dominance, recognition, attention, importance, or appreciation. A desire for esteem from others.

² Since the preparation of this report Roach and Davis (1973) have essentially replicated Roach's 1958 study. This provides further support for relative in-variance of the work categories used to outline the work environment in the Roach (1958) report.



<u>Autonomy</u>: The desire for independence and freedom. The desire for achievement, competence, mastery, adequacy, and confidence. The desire for self-esteem based on one's own opinion of oneself as reflected in the specific aspects just listed.

<u>Self-actualization</u>: The desire to realize one's own potential. The desire for growth and self-development, and the desire to become everything that one is capable of becoming.

A factor analysis of Beer's variables indicated that the Maslow needs emerged on separate factors. Beer's results support the Roach (1958) findings that needs can be considered as separate factors and the Maslow framework provides a concise descriptive underpinning.

It was decided, therefore, to eliminate <u>Communication</u> as a separate category and to include a <u>General Need Satisfaction</u> category with subcategories corresponding to the <u>Security</u>, <u>Social</u>, <u>Esteem</u>, <u>Autonomy</u>, and <u>Self-Actualization</u> needs outlined by Maslow. The <u>General Need Satisfaction</u> category therefore incorporated the Herzberg et al. (1957) factors of "social aspects of the job" and "security" and, to some extent, their "intrinsic aspects of the job" factor. In addition, examination of the remaining aspects of work found within the "intrinsic aspects of job" factor indicated that such aspects fit Vroom's (1967, pp. 236-252) description of "job content." Therefore, a <u>Job Content</u> category was established, along with the subcategories suggested by Vroom, which replaced the Intrinsic Aspects of the Job catego y:

<u>Job Content</u>: All of the intrinsic aspects of the work itself (but not including those aspects identified by Beer, 1964) including the following subcategories: <u>Job Level</u>, <u>Specialization and Perceived Complexity of Tasks</u>, <u>Control of Methods Used on Job</u>, <u>Control of Work Rate</u>, <u>Skills and Abilities of Workers</u>, <u>Success and Failure in Per-</u> formance of Job, and <u>Task Components of Job</u>.

Hours of Work was considered to be a separate category from <u>Working Conditions</u>. It seemed reasonable that, since a worker spends approximately one third of each day at work, working hours could be treated as a separate work factor. A <u>Miscellaneous</u> category was also added, and the "Company and Management" factor was broadened to create the category <u>Company and Union</u>.

From a variety of literature defining and describing the work categories, a sample of words representative of each category was identified and edited for inclusion in the initial stimulus word list. No attempt was made to equate the number of different words among categories, only to ensure that the list was representative of those aspects of work described by the categories. The resulting number of stimulus words varied from four words in the <u>Promotion</u> category to 18 words in the <u>Supervision</u> category. The initial stimulus word list consisted of 178 different words distributed among the 14 work categories.

Review

The stimulus words, listed by category heading, were reviewed by a nine-member panel of experts in educational psychology, industrial psychology, counseling psychology, manpower training, engineering, and vocational education. All reviewers were instructed to independently (a) examine



23

the words in the list and line-out those words (or categories) deemed inappropriate, and (b) to add any additional words (or categories) that would communicate work-related meaning. Each reviewer was further urged to add any general comments about the stimulus word list.

The revised stimulus word list is presented in Table 1. The revised list includes 211 words distributed among 10 work categories and a Miscellaneous category. Two new categories of words were added as a result of reviewer inputs:

<u>Attributes of Workers</u>: Included those descriptions of work-related traits appropriate to to a wide range of occupations.

Adjectives: Those adjectives representative of the dimensions of affect ordinarily measured by the semantic differential technique (e.g., Osgood, Suci, & Tannenbaum, 1957). This included the evaluative (e.g., good-bad), potency (e.g., strong-weak), and activity (e.g., active-passive) dimensions.

While the <u>Adjectives</u> category was not considered a work category <u>per se</u>, it was added to the list because it was felt that it could provide a relatively simple match of affect level (as defined by the adjective stimulus) with work dimensions (as defined by associative responses).

The revised stimulus word list was the source of a sample of stimulus words selected for use in the first of two studies, Experiment I. Three judges were instructed to read the definition of each category of work and to reach 100% agreement on the minimum number of stimulus words within each category necessary to be representative of the category. The entire <u>Adjectives</u> category was included in the stimulus word list to permit investigation of the notion that associative responses to adjectives would directly link affect with appropriate dimensions of the work environment. Table 2 presents the stimulus word list selected for use in Experiment I.





| | | | Job Content | | | | |
|-------------------------------------|---|-----------------------------------|-----------------------------|--------------------------------------|---|---------------------------|---------------------------|
| Job Level or Occupational Status | Specializztion & Perceived Complexity of Tasks | Control of Methods Used on Job | Control of the Work Rate | Skills and Abilities of Worker | Success & Failure in Performance of Job | Task Components of Job | Hours of Work |
| status | specialize | control | regulate | skill® | accomplishment | task | working hours |
| job title | specialist ^a | assist | p. oduction | competence | achievement | function | shift assignment |
| rank | boredom | initiate | quantity | ability | sticcits | maintain | day shift |
| position | wariety ^a | obedience | pressure | intelligence | failure | assignment ^a | night shift |
| role | challenge | contribution | speed | capability | affective | write | leisure |
| | ease | plan | tension | experience | ineffective | inspe. t | coffee break ^e |
| | repetition [®] | choice | capacity | performance | hindrance | calculate | fatigue |
| | simple | influence | quality | eciucation | finish | arrange | overtine |
| | interest | suggestion | relaxation | training | prevent | replace | |
| | difficult | in itiative ^a | work pace ^a | knowledge [®] | interruption | Interpret | |
| | concentrate | interference | schedule | understanding | defeat | duties ^a | |
| | | decision | influence | | progress | | |
| | | | | | mistake | | |
| | | | | | fault | | |
| | | | | | interference | | |

15

25

Note-Stimulus word category definitions are presented on pp. 11-13.

Experiment & stimulus words



| Work | | Ğ | Gener ' Need Satisfaction | ion | | Compe | Compensation |
|--------------------------|-------------------------|------------------------|---------------------------|----------------------------|-------------------------------|--------------------------|-----------------------|
| Conditions | Security | Social | Esteem | Autonomy | Self-actualization | Pay | Benefits |
| noise | security | co-wurker ^a | esteem | freedom ^ª | potențial | pay(income) ^a | benefits |
| surrounding. | seniority ^a | group | reputation | autonomy | growth | money | per diem |
| temperature ^a | familiar | team | recognition | confidence | self-fulfiliment [®] | pay raise ^a | bonus |
| lighting | retirement ^a | join | appreciation | independence | self-expression | overtime | sick pay ^a |
| tools | protection | belonging | dominance | free | goal | reward | vacation |
| equipment ^a | insurance | alone | admiration | self-respect | become | cost of living | holiday |
| parking | pension | morale | attention | dignity | motivation | wealth | |
| convenience | layoff ^a | friendship | prideª | self-reliance ^a | desire | | |
| safety | dismissal | cooperation | self-respect ^a | | å | | |
| supplies | | acceptance | | | satisfaction ^a | | |
| cleanliness | | conformity | | | | | |
| working environment | | trust | | | | | |
| | | friend | | | | | |
| | | depend | | | | | |
| | | prejudice ^a | | | | | |

Experiment 1 stimulus words

1

?6

| _ | |
|----|--|
| 5 | |
| S | |
| Ũ | |
| ** | |
| 룫 | |
| Ĩ | |
| | |

| ActivityActivityPotencyEvaluationsupervisioncompanylegrenationfastEvaluationsupervision*companylegrenation*instituent*bad*supervision*company policy*instituent*stor*bad*supervision*company policy*instituent*stor*bad*supervision*company policy*institue*sout*bad*supervision*company policy*institue*sout*seeseptimand*company policy*institue*sout*seeseptimand*comoduessimple*sout*sout*septimand*contractalert*powerful*bad*septimand*stewardmature*set*unsociable*counseldoministractcontractcontractsout*septimand*legenest*contractsout*sout*set*defeasealert*mature*mannyconseldoministractcontractsout*sout*set*contractcontractsout*sout*set*legenest*legenest*sout*sout*set*legenest*legenest*sout*sout*set*legenest*legenest*sout*set*legenest*legenest*sout*set*legenest*legenest*legenest*set*legenest*legenest*legenest*set*legenest*legenest*legenest*s | | Promotion | Currenticion | Company and Unions | Autributes of | | Adjectives | | |
|---|----|-------------|-------------------------|-----------------------------|----------------------------|---------------------|--------------------------|--------------------------|---------------------------|
| metit upervision company percontiny fatte fatteent* folder < | · | 1000 | | | HOIKEI | Activity | Potency | Evaluation | Miscellareous |
| promotion upervision indiment judgment judgment judgment judgment bud elwincemuni fairest mangement intiligenee complex judgment bud elwincemuni fairest mangement intiligenee complex judgment bud uppede juspine intiligenee intiligenee compaxy policy intiligenee ste pay raise reprimacie mon dues health* mangement ste ste pay raise reprimacie mon dues health* mature* power/uf ste ste pay raise intervision attre* mature* mature* power/uf mature* ste pay raise stever contract contract contract power/uf monotidee dee post contract contract contract mature* mature* mature* countact contract contract contract mature* mature* <th></th> <td>merit</td> <td>supervisor</td> <td>company</td> <td>personali ty[®]</td> <td>fast^e</td> <td>efficient^e</td> <td>^eboog</td> <td>absenteeism^e</td> | | merit | supervisor | company | personali ty [®] | fast ^e | efficient ^e | ^e boog | absenteeism ^e |
| advancement fairnes ⁶ management ⁶ intelligence ⁶ complex faiture ⁶ state state <th></th> <th>promotion</th> <th>supervision</th> <th>•non•.</th> <th>judgment^e</th> <th>siowa</th> <th>inefficient^a</th> <th>bade</th> <th>satisfaction^a</th> | | promotion | supervision | •non•. | judgment ^e | siowa | inefficient ^a | bade | satisfaction ^a |
| uppadedisplinecompany policyintaruestripesoftdagerouspay raisereprimandeuno duesheatthmaturepowerfulcoublecoublepay raisereprimandeuno duesheatthmaturematurematurecoublecoubleparaisestewardatureaturecourseidimistratrintermaturematureparaisecourseidimistratraturecourseidimistratrmaturecourseidimistratraturecontactcourseimaturematurecourseidimistratrcontactcontactmaturematurematurecourseidimistratrcontactcontactcontactmaturematuredefeatescontactdimistratrindustious*maturematurematuredefeatesdimistratrindustious*dimistratrmaturematuredefeatesdivituedivituedimistratrmaturematuredefeatesdimistratrdimistratrdimistratrmaturedefeatesdimistratrdimistratrdimistratrmaturedefeatesdefeatesdimistratrdimistratrmaturedefeatesdefeatesdimistratrdimistratrdimistratrdefeatesdefeatesdimistratrdimistratrdimistratrdefeatesdefeatesdimistratrdimistratrdimistratrdefeatesdimistratrdi | | advancement | fairness ^e | management ^e | intelligence [®] | complex | hard ^a | safe | active |
| pay raise reprimand unon dues health® powerful® sociable® praise steved steved mature® teved sociable praise steved mature® teved wak® usociable® counsel administration ature® mature® waks usociable® counsel administration ature ature waks usociable® contact contact contact constende maturestion manuful® delegates contraction fexible® industrious® manuful® industrious® coder lay-off industrious® industrious® industrious® manuful® coder lay-off industrious® industrious® industrious® manuful® requestion lay-off industrious® industrious® industrious® requestion lay-off industrious® industrious® industrious® requestion reduetes stoffences industrious® in | | upgrade | discipline [®] | company policy ^a | initiative ^e | simp.e ⁿ | soft® | dangerous ^e | passive |
| praise steward mature wask unsociable coursel administrat administrat meaningule coursel administrat consistent meaningule represent contact consistent meaningule represent contract consistent meaningule boss rules resonsible meaningule order lay-off industrious ^t meaningule order lay-off industrious ^t meaningule request denoration fexible meaningule utocratic grievance ^t joy knowledge meaningule genocratic grievance ^t willingness ^t industrious ^t permissiveness confidence ^t subordiale industrious ^t | | pay raise | reprimand ^e | union dues | health. | | powerfule | sociable | accident |
| counsel administratc2 alert ^a represent contract contract represent contract consistent ^a bos rules consistent ^a bos rules responsible ^a delegates communication flexible ^a order lay-off industrious ^a request dismissal ^a job knowledge ^a foreman regotiation ^a loyalty ^a subordinate grewnce ^a willingness ^a democratic confidence ^a sutocratic dictates confidence ^a confidence ^a | | | praise | steward | mature ^a | | weak | unsociable ^a | customer ^a |
| represent contract. consistent ^a boss rules responsible ^a delegates communication flexible ^a order lay-off industrious ^b request dismissal ^a job knowledge ^a foreman negrotation ^a loyalty ^a subordinate grievance ^a willingness ^a democratic confidence ^a sutocratic confidence ^a | | | counsel | administrato? | alert ^e | | | meaningful® | |
| boss rules delegates communication delegates communication order lay-off lay-off request dismissal ^a foreman merotiation ^b subordinate grievance ^b democratic permissiveness autocratic distates | 1 | | represent | contrac | consistent ^a | | | meaningless ^e | |
| delegates communication order lay-off request dismissal ^a foreman nerrotiation ^a subordinate grievance ^a democratic permissiveness autocratic dictates | 7 | | boss | rules | responsible [®] | | | | |
| order lay-off request dismissal ^e foreman nerrotiation ^e subordinate grievance ^e democratic permissiveness autocratic dictates | ĺ | | delegates | cormunication | flexible® | | | | |
| request dismissal ^e foreman negotiation ^e subordinate grievance ^a democratic permissiveness autocratic dictates | | | order | lay-off | industrious ^e | | | | |
| foreman negotiation ^e subordinate grievance ^e democratic permissiveness autocratic dictates | 2 | | request | dismissal | job knowledge ⁿ | | | | |
| grievance ^a ess | :7 | | foreman | negotiation ^a | loyalty" | | | | |
| 3 | | | subordinate | grievance ^a | willingness | | | | |
| permissiveness autocratic dictates | | | democratic | | confidence | | | | |
| autocratic dictates | | | permissiveness | | | | | | |
| dictates | | | autocratic | | | | | | |
| | | | dictates | | | | | | |

Experiment | stimulus words



Table 2 Work-Related Stimulus Words Used in Experiment 1

- 1. absenteeism
- 2. assignment
- 3. bonus
- 4. boredom
- 5. cleanliness
- 6. coffee break
- 7. company policy
- 8. confidence
- 9. contribution
- 10. cooperation
- 11. co-worker
- 12. customer
- 13. decision
- 14. discipline
- 15. dismissal
- 16. duties
- 17. equipment
- 18. experience
- 19. failure
- 20. fairness
- 21. fatigue
- 22. freedom
- 23. grievance
- 24. influence
- 25. initiative
- 26. intelligence
- 27. interference
- 28. job knowledge
- 29. job title
- 30. judgment
- 31. layoff
- 32. lighting
- 33. loyalty
- 34. management
- 35. morale
- 36. negotiation
- 37. noise
- 39. pay
- 40. pay raise
- 41. pension
- 42. personality
- 43. praise
- 44. prejudice
- 45. pride
- 46. production
- 47. promotion
- 48. recognition
- 49. relaxation 50. repetition
- ou. repetition

- 51. reprimand
- 52. reputation
- 53. retirement
- 54. satisfaction
- 55. schedule
- 56. security
- 57. self-expression
- 58. self-fulfillment
- 59. self-reliance
- 60. seniority
- 61. sick pay
- 62. skill
- 63. specialist
- 64. status
- 65. success
- 66. suggestion
- 67. supervision
- 68. temperature
- 69. tension
- 70. training
- 71. union
- 72. vacation
- 73. variety
- 74. willingness
- 75. working hours
- 76. work pace
- 77. alert
- 78. bad
- 79. complex
- 80. consistent
- 81. dangerous
- 82. efficient
- 83. fast
- 84. flexible
- 85. good
- 86. hard
- 87. industrious
- 89. mature
- 90. meaningful
- 91. meaningless
- 92. powerful
- 93. responsible
- 94. safe
- 95. simple
- 96. slow
- 97. sociable
- 98. soft
- 99. unsociable

28

100. weak



CHAPTER III

EXPERIMENT I

The use of word association procedures to determine the psychological meaning, especially the affective meaning, of objects within the work environment requires that: (a) stimulus words be representative of the work environment, (b) responses be representative of the range of psychological meaning workers assign to objects in their work environment, (c) above all, responses include those of an affective nature, and (d) responses can be used to derive associative maps of stimuli which reveal the dimensionality of the work environment and provide a context for content analyses of response distributions.

Meaning in Word Association

In a relatively unstructure or free word association task, stimulus words can be expected to elicit a wide semantic range of affective and descriptive responses, including syntagmatic and paradigmatic responses (Nunnally, Flaugher & Hodges, 1963; Cramer, 1968, pp. 188-190). Syntagmatic responses are responses given on the basis of associative contiguity. The fact that we do form associative connections between two psychological processes that occur together in time or in immediate succession is well-documented (Deese, 1965, p. 7). Paradigmatic responses are based on conceptual, mediated relationships and represent more structural associations, e.g., indication of the stimulus as a subordinate entity. For the present investigations of psychological meaning, paradigmatic responses were considered to be more desirable than syntagmatic responses, a result which appears to be primarily a function of the instructions given to respondents.

Instructions

The instructions given to subjects in a word association task will influence or restrict the semantic level of response. For example, Kreitler and Kreitler (1968) reported that, when subjects were instructed to give either lexical or symbolic responses to varied stimuli, there was less than 10% semantic overlap between the two respective groups of responses. Cramer (1968) reported that instructions could successfully activate either a particular semantic category or, less restrictively, establish broad "response sets" (pp. 91-98).

Associative Maps

With regard to interpretation of response distributions, there is evidence that a meaningful stimulus word dimensional structure can be derived from word association responses.





Three investigations (Smith, 1968; Pratzner, 1969; Liu, 1972) have demonstrated the use of worker responses to develop meaningful maps of the associative relationships among occupationally specific stimulus words. The associative maps subsequently were used to successfully differentiate two independently identified groups of electronic technicians who could and who could not repair a wide range of equipment.

Research Questions

The word association paradigm was, therefore, considered to be a viable approach to investigate the psychological, including the affective, meaning of aspects of the work environment. Within this paradigm an investigation was conducted to attempt to answer the following major questions:

- 1. In a continued word association format, can single stimulus words elicit a wide semantic range of responses?
- 2. Can instructions be used to place the stimulus words in a work-related context and the subjects in an affective response set, resulting in a decrease of contiguous, or syntagmatic, responses without seriously restricting the semantic range of paradigmatic responses?
- 3. Can the overall psychological structure of the work environment be determined from a hierarchical dimensional analysis of the stimulus words; and, further, can this dimensional structure be used as a contextual guide to interpret the meaning of responses to individual stimuli?

Method

<u>Subjects</u>

Subjects were 10 automotive mechanics (all males) and 10 secretaries (all females) employed in the metropolitan Cclumbus area. Ages ranged from 20 to 54, and all subjects had been employed for one or more years within their occupation. Automotive mechanics were sampled from three separate automotive repair garages with sample sizes of 5, 4, and 1, respectively. All secretaries were sampled from various divisions of The Center for Vocational Education, The Ohio State University, in sample sizes of 3, 3, 2, and 2, respectively.

Materials

<u>Single-word format.</u>³ As discussed in Chapter II, 100 stimulus words, 76 nouns and 24 adjectives, were selected from the total stimulus word list with the restriction that they be representative of all work categories and that the entire <u>Adjectives</u> category be included. The 100 stimulus words



³See Appendix A for an example of the single word format data collection instrument.

were then placed in a continued-association format by printing each word in a column 15 times on a single sheet of $8\frac{1}{2}$ " x 11" paper, each repetition followed by a blank line as follows:

| task_ | |
|-------|------|
| task_ | · |
| task | |
| task | |
| | etc. |

Ten booklets of 100 pages each (i.e., one page for each of the one hundred stimulus words) were then collated, each in a different random order. The first page of each booklet contained a completed example of the word association task and brief directions to be read aloud by the experimenter.

Sentence-stem format.⁴ The 76 nouns in the single-word format were used to construct sentence-stems as follows:

| a task is | | |
|-----------|------|--|
| a task is | | |
| a task is | | |
| a task is | | |
| | | |

etc.

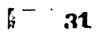
The booklets using the sentence-stem format were assembled in the same manner as the single word booklet. Stimuli from the <u>Worker Attributes and Adjectives</u> category were not appropriate for this format.

Procedure

<u>Data collection</u>. Within each occupation, subjects were randomly assigned, five per group, to either the singe-word or the sentence-stem condition, resulting in a 2×2 occupation-by-format matrix:

⁴Data will not be reported separately here for the sentence-stem and single-word formats. Data analyses reported in this chapter are based on the associative responses pooled across both formats. The reader is referred to Appendix A for a discussion of the relative efficiency of the sentence-stem format, when compared to the singleword format.





| | <u>Fe</u> | ormat |
|----------------------|-------------|---------------|
| Occupation | Single-word | Sentence-stem |
| Secretarial Science | <u>n</u> =5 | <u>n</u> =5 |
| Automotive mechanics | <u>n</u> =5 | <u>n</u> =5 |

Figure 1. Research Design for Experiment I

Subjects were instructed to consider the stimulus words (sentence-stems) in relation to their work. In addition, subjects were told to write those responses that best expressed what each stimulus word (sentence-stem) meant to <u>them</u> and how <u>they felt</u> toward the aspect of the work environment the stimulus word (sentence-stem) represented. All subjects were asked to limit their responses to single words, but subjects in the sentence-stem condition were allowed to use the words "a" or "an" as a preface to their response. Subjects were told to write as many different responses as they could in the time allowed for responses to each stimulus word. A tape-recorded, 500 Hz tone sounded at 50 second intervals to signal the subject to stop writing, turn the page, and begin writing responses to the next stimulus word (sentence-stem). Subjects in the single-word condition were given a short rest approximately halfway through the task. Following completion of the task, all subjects were given details of the purpose of the experiment, and the experimenter answered any subsequent questions.

Data analysis. The RCMAT computer program (Mead, 1972) at The Ohio State University was used to calculate stimulus word overlap matrices. This program is essentially a modification of the Relatedness Coefficient (RC) technique developed by Garskof and Houston (1963). The RC is a measure of verbal relatedness between two stimuli. Mead's computer program permits pooling of responses across subjects before calculating stimulus word overlap. The pooled overlap measure considers the frequency of response words, the number of shared response words, and the rank order of response words. The output of the RCMAT program is a stimulus-by-stimulus RC matrix that can be reduced by various dimensional analyses (e.g., factor or cluster analysis).

As a first analysis, an RC matrix was obtained using data based on the pooled responses of all 20 subjects, excluding idiosyncratic responses (i.e., responses to each stimulus given by only one subject). The analysis included only the 76 stimuli common to both the single-word and the sentence-stem format. This matrix was then reduced by the Wherry-Wherry II Hierarchical Factor Analysis program (Harmon, 1967) available at The Ohio State University.

Following this, a content analysis was made on the pooled responses given by all subjects to the 76 stimuli common across both formats. This again included all responses given to each stimulus, by two or more subjects (i.e., excluding idiosyncratic responses).



Results and Discussion

Factor Analyses

Figure 2 summarizes the results of the hierarchical factor analysis. It includes those items that loaded ∠ .2956 on the General, Secondary, and Primary factors. It was apparent that the hierarchical factor analysis did not reveal a clear dimensional structure. Some factors appeared to be interpretable while others did not. For example, Primary Factor 4 in Figure 2 appeared to be the <u>Compensation</u> category listed in Table 1. Also, the Primary Factors 1 and 3 in Figure 2 appeared to combine the <u>Skills and Abilities</u> and the <u>Attributes of Worker</u> categories of Table 1. However, Secondary Factor II and Primary Factors 6 and 7 did not lend themselves to interpretation. Therefore, the usefulness of the factor solution to outline the structure of the work environment and to provide a context for interpretation of the meaning characteristic of each stimulus word response distribution was limited.

Content Analysis

A content analysis of the pooled response distributions was undertaken in an attempt to both clarify the factor structure and determine the affective and psychological meaning assigned to each stimulus. The content analysis revealed several reasons for the difficulty in factor structure interpretation.

First, a wide range of semantic levels was indeed present within the response distribution for each stimulus (see Appendix A for pooled response distributions for all stimuli), and it was apparently possible for the responses given to one stimulus-member of a particular factor to be the key for the entire factor. That is, all other stimuli within the factor may share responses primarily with the key stimulus word (sentence-stem) and not necessarily share many responses among themselves. For example, examination of the response distributions for Primary Factor 7 stimuli, shown in Table 3, indicated that the stimulus word "Schedule" was apparently a key to the factor. Most of the responses given to "Schedule" were shared with the other three stimulus words. However, a number of semantic ievels of response within the response distributions given to the other three stimulus words were not shared. The non-sharing of semantic levels did not influence the factor structure and therefore could not be used to facilitate the psychological interpretation of any factor as a dimension of the work environment.

Second, the RC statistic was not sensitive to contextual shifts in meaning. For example, Table 3 indicates that the word "time" was used in one sense in response to "Schedule" and in another sense in response to "Freedom." Yet these different levels of usage were considered equivalent when the RC was computed for the two stimulus words. This phenomenon further underscores the difficulty in assigning a satisfactory psychological meaning to the factor.

Third, the data suggested that if the responses "work" and "job"-given to over 50% of all stimuli and considered artifacts of the work-related set—were removed, a different factor structure could have emerged. This is likely since a factor structure is a function of the RC matrix and each entry in the matrix is an index of the number and rank order of associative responses shared between two stimuli. With over 50% of all stimuli sharing the responses "work" or "job," the factor structure was indeed confounded.



23

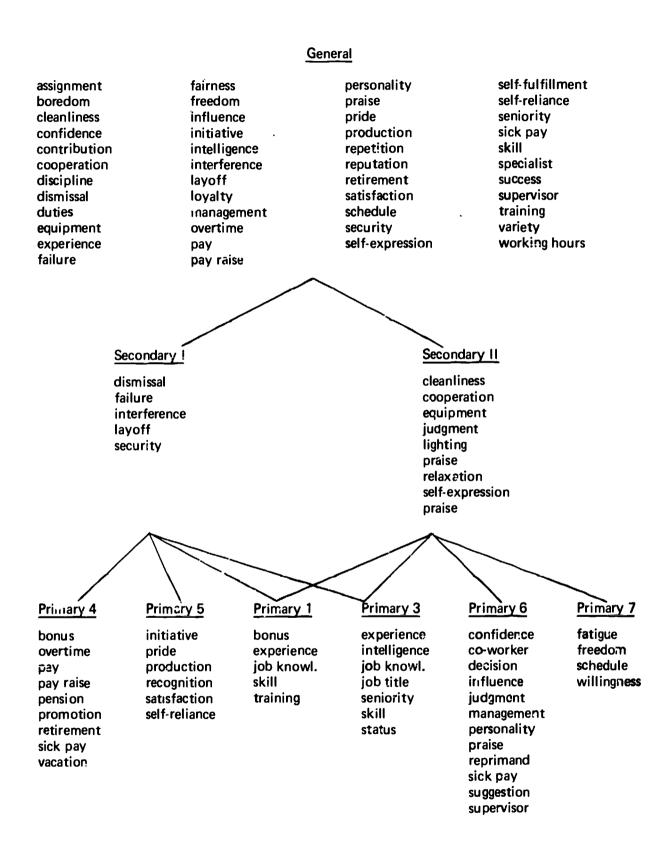


Figure 2. Hierarchical Factors with Variables Loading .2956 or Above.



24

 $\mathbf{74}$

Table 3

Response Distributions for Primary Factor 7 Stimulus Words

| Schedule | f | Freedom | f | Fatigue | f | Willingness | f |
|------------------------|----|-------------------|---|--------------------------|----|----------------------|---|
| time = | 13 | necessaryª | 3 | work ^a | 10 | work | 5 |
| work ^a | 4 | work ^a | 3 | rest | 5 | helpful ^a | 4 |
| list | 3 | good | 3 | boring | 3 | learn | 2 |
| routine | 2 | time ^a | 3 | tireaness | 3 | do | 2 |
| performance | 2 | great | 2 | sleep | 2 | helping | 2 |
| rigid | 2 | fun | 2 | busy | 2 | able | 2 |
| daily | 2 | procedure | 2 | performance [®] | 2 | use | 2 |
| job ^a | 2 | need | 2 | run down | 2 | perform | 2 |
| timely | 2 | | | job * | 2 | agreeable | 2 |
| necessary ^a | 2 | | | task | 2 | help | 2 |
| helpful ^a | 2 | | | | 2 | job ^a | 2 |

*Response words shared by two or more stimulus words.



Fourth, the difficulty in factor interpretation was further confounded by the functional ambiguity of some stimulus words (sentence-stems). The ambiguity of these stimuli also prevented content analyses from determining clearly what affective and psychological meaning workers associated with the work environment. Some stimuli were given various interpretations which indicated that they were being perceived in various contexts. These stimuli were not perceived by workers as representing <u>only</u> the appropriate work-related category from which they were selected. For example, examination of the response distribution for the stimulus word "influence," shown in Table 4, indicated that it was viewed from a conceptual framework broader than the work environment: as political influence, the result of friendship, and a function of knowledge and ability. Thus, it was not clear that affective responses (e.g., "good" and "bad") were indications of the individuals' attitudes toward their influence at work, nor was it clear to what extent subjects were responding to "influence" in a work-related context.

Table 4

| Influence | f |
|-------------|---|
| friend | 3 |
| helpful | 3 |
| good | 2 |
| supervisor | 2 |
| help | 2 |
| bad | 2 |
| co-worker | 2 |
| knowledge | 2 |
| job | 2 |
| ability | 2 |
| performance | 2 |

Response Distribution for Stimulus Word "Influence"

Therefore, the perceived ambiguity of some stimulus words further complicated interpretation of the factor structure. Because of this ambiguity, some stimulus words failed to elicit work-related responses specific to the category of work that the stimulus word was intended to represent. This made difficult the interpretation of some affective responses as indicators of subjects' attitudes toward a specific aspect of their work environments.

Summary

Using the word association paradigm, an attempt was made to determine the hierarchical structure of work environment categories and to determine the psychological meaning, especially the affective meaning, of each of those categories. The investigation did not produce a meaningful



 $\hat{}$

associative map of the work environment. Several reasons have been advanced as possible contributions to this result.

First, the results suggested that the calculation of a stimulus-by-stimulus RC matrix, and subsequent factor analytic reduction, may be inappropriate for word association data where multiple semantic levels of responses are expected, unless a method is also available for determining the psychological equivalence of and differences between response distributions prior to computation of the overlap between the distribution. Second, given that there were multiple semantic levels within response distributions and that the meaning of identical responses may have shifted in the context of different stimulus words, the RC measure of relatedness was not an adequate index of these complex semantic relationships between stimuli. Third, although the stimuli elicited a wide range of semnatic responses, a condition necessary to determine the full psychological meaning of the stimuli, the responses "work" and "job" were interpreted as artifactual. Finally, subjects placed the stimuli in multiple contexts. Apparently, many stimuli lacked the specificity to elicit responses relevant to the particular aspect of the work environment each was intended to represent. This made interpretation of a response distribution as representing the meaning of a particular aspect of the work environment highly tenuous. The stimuli may have lacked specificity in another sense. It was possible that, even in those instances when a content analysis suggested the subjects had responded within the context of the work environment, they may not have responded from a personal viewpoint, indicating what their work environment meant to them.



.37

CHAPTER IV

STIMULUS PHRASE LIST DEVELOPMENT

The single-word or sentence-stem form of stimuli for the continued word association method used in Experiment I was inadequate to investigate the affective and other psychological meanings of the work environment. It was concluded that, if continued word association was to be a viable method to determine the meaning of the work environment for the worker, a different stimulus format would have to be used.

Such a format must increase the specificity of the stimuli so that responses given by workers would be confined to the work environment context. However, increased specificity should not be obtained at the expense of reduced semantic levels of response within that context, especially the affective level. A viable format would also ensure that stimuli elicit self-referent responses from the worker in the context of <u>his</u> present work environment. Moreover, it should decrease the probability that artifactual responses, such as "work" and "job," would be elicited from subjects.

A review of the literature suggested the transformation of stimuli from single words to phrases. Specifically, in a recent study concerning the measurement of the construct "morale," Scott (1967) used semantic differential scales to measure the following work-related phrases:

My Opportunities for Growth My Job My Supervisor Top Management Company Benefits My Fellow Workers My Pay My Working Conditions

There were several reaons why this particular phrase format appeared to meet the necessary criteria for a viable stimulus form in further, continued word association investigations of meaning. Artifactual responses, such as "work" and "job," should be incongruous with this phrase form. Also, this form of stimulus should primarily elicit self-referent responses which would emphasize the personal affective meaning of the stimuli. Finally, worker's associations should be relevant only to the work environment and should still contain multiple semantic levels of meaning.

In support of this latter assertion, Rouse and Verinis (1965) demonstrated that compound stimuli, when selected to define and provide high transitional probability for producing a desired response, would increase the probability of that response. It seemed plausible that work-related phrases would define and provide high transitional probability for producing responses relevant to



only the work environment. In addition, responses that are confined to the stimulus phrase context should still contain multiple semantic levels (i.e., the number of semantic levels should not be substantially reduced). Indeed, Cramer (1968) reported that, in general, a more heterogenous set of responses were given to compound multiple word stimuli than to single word stimuli (pp. 91-98). This suggested that phrases may increase the semantic range of responses.

In brief, this format should delimit the subject's associative response domain to that aspect of his job defined by each stimulus phrase. The narrowed response domain should contain various semantic levels of response, including those representing affective meaning. The concept phrase format suggested by Scott was therefore adopted for use in further research, and single-word stimuli were transformed to phrases.

The total stimulus word list was examined by category. Within each category, single words intended to represent important aspects of the work environment were transformed to the concept phrase representative of that aspect. For example, the single word "influence" was translated into the two phroses "my control over work pace" and "my control over work methods." The words used in Experiment I were given preference, since they had previously been selected as representative of the work categories. Table 5 lists the resulting 40 concept phrases developed to be representative of the several categories of work.

The use of concept phrases reduced both the original number of work categories and the number of stimuli used to represent the work environment. For example, the investigators felt that the phrases "opportunities for on-the-job training," "use of my abilities at work," and "my competence at work" served as well as the six single word stimuli to effectively represent an associative domain concerned with both the subcategory Success and Failure in Performance of Job & the subcategory Skills and Abilities of Worker. Hence, the number of stimuli used to represent the combination of these two subcategories was reduced from six single words to three phrases, and since these phrases appeared to represent both subcategories, the Skills and Abilities of Worker subcategory was dropped as a discrete category label. In a similar manner the subcategories Job Level or Occupational Status and Task Components of the Job were represented by stimulus phrases in combination with other subcategories and the labels were deleted. The total number of stimuli representative of the work environment was reduced from 100 stimulus words to 40 stimulus phrases. The categories Attributes of Worker and Adjectives were not represented by stimulus phrases. The phrase form of a stimulus word contained within these categories would still have been a descriptive one, and the results of Experiment I suggested that such descriptive stimuli would elicit responses representing only a narrow range of the psychological meaning of the work environment (i.e., the range of interpretable meaning would be limited to the affective dimension and would not include those related and important cognitively based responses).⁵

Summary

A phrase form of stimuli was developed to replace the single-word form. Experiment I indicated that word association methods, using single-word and sentence-stem form of stimuli, was





⁵See Appendix A for the responses elicited by adjective stimuli in Experiment I.



Table 5

Stimulus Phrases for Work Categories

| Job Content | General Need Satisfaction | Compensation | Working Conditions | Supervision | Company and Union | Coworkers |
|--|---|--|--|--|--|-------------------------|
| Assignment and perceived complexity of tasks My opportunities to do a variety of tasks Opportunities to do challenging work My job Control of work methods My control over work methods My control over work pace Interference with my job Skills and abilities of worker Use of my abilities at work My competence at work Opportunities for on-the-job training | Security My job security My job security Social Interaction with my coworkers Opportunities to help others in the community Me at work Me at work My prestige at work My prestige at work My prestige at work My prestige at work My self-confidence at work | My pay My opportunities for promotion My fringe benefits ork . | My working conditions The work methods used on my job The work pace used on my job My working hours The equipment used on my job Overtime work Coffeebreaks | My supervisor Wy supervisor's ability to handle people Interaction with my supervisor's evaluation of my work | Company policies on my job Handling of griev- ances on my job job job | My feliow co-workers |

31

inadequate to investigate the non-technical, psychological meaning of the work environment. A format suggested by Scott (1967) appeared to resolve the major difficulties. The suggested format involed transforming stimulus words into stimulus phrases. This resulted in both fewer work-related categories and fewer stimuli to represent those categories. Descriptive words were not transformed into phrases since Experiment I results suggested that descriptive phrases were inefficient stimuli.

÷



CHAPTER V

EXPERIMENT II

The results of Experiment I were generally supportive of a number of features of the word association method to investigate the non-technical, psychological meaning of work-related stimuli. But, results also suggested that the Experiment I methodology needed to be changed in two ways for further investigations to be successful in defining the affective and descriptive meaning of the work environment.

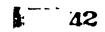
First, emphasis should be shifted from a dimensional analysis of the stimuli to a dimensional analysis of the response words. Experiment I indicated that the dimensional analysis of word association stimuli was confounded by the inability of the overlap measure to account for the psychological equivalences and differences between response distributions. Further, the RC measure of relatedness did not include all of the semantic information contained within the response distributions. Therefore, the hierarchical factor analysis of the RC matrix could not be interpreted clearly; the analysis lacked face validity and could not be used as a context for interpreting the responses given to a particular factor member. The results suggested that stimulus meaning should be derived from the associative responses themselves (i.e., from a content unalysis of response distributions).

Second, the stimulus form should be changed in order to delimit ascociative responses to those relevant to a subject's present job and exclude irrelevant artifactual responses like "work" and "job," without constricting associative responses of an affective nature. It was felt that such focusing of the subjects' associative response domain could facilitate content analysis and could be accomplished by transforming single-word stimuli to phrase-form stimuli.

Use of Response Word Categories

The results of Experiment I also suggested that the same response word can have different psychological meanings in the context of different stimuli. In Table 3, for example, the response "performance" was given to both the stimulus word "schedule" and the stimulus word "fatigue." In the former context "performance" is used as a modifier to indicate a work routine or task sequence while in the latter context "performance" labels a causative factor in fatigue. Therefore, it would be helpful to determine the psychological meaning of responses within the context of the eliciting stimulus phrases. This would account for any shift in meaning an associative response might have when considered in the context of different stimulus phrases, as in the example listed above, and would reflect more accurately the associative meaning of each phrase. One method of accounting for shifts in meaning across contexts would be to establish a set of common <u>associative response</u> categories that would classify all the associative responses given to all the stimulus phrases. Then, the associative responses given to each stimulus phrase would be categorized independently of responses given to





other stimulus phrases. That is, the meaning of each response would be considered in the context of its eliciting stimulus phrase, and only its eliciting stimulus phrase, thereby assuring that the response would be assigned to the most meaningful category.

The use of associative response categories would clearly facilitate content analysis and also would suggest an associative structure of meaning for the work environment, as follows: since any contextual meaning-shift of each associative response is accounted for, a clear content and pattern of meaning for each stimulus phrase could be derived by examining the distribution of responses across all of the associative response categories. Any differential or disproportionate category usage would reveal those aspects of each stimulus that subjects have emphasized, making it easier to further determine the exact meaning of each stimulus phrase. Hence, associative response categories would facilitate content analyses. At the same time, the associative response distribution pattern, or differential usage of associative response categories within each stimulus phrase, would allow comparisons between and among stimulus phrases to reveal similarities and differences in the patterns of meaning. Since each stimulus phrase concentualizes one facet of the work environment, similarities and differences in meaning among or between and use phrases would reflect an associative structure of the work environment.

However, the use of response word categories must clarify, not distort, the meaning characteristic of the distribution of responses given to each stimulus phrase. Response word categories must be flexible enough to accurately reflect the semantic sense or part of speech that each response word represents. A review of response-word category usage in word association suggested that it was possible to establish categories that would not distort the responses and would be an aid in content analysis (e.g., Kreitler & Kreitler, 1968; Laffal & Feldman, 1962).

One particular method suggested by the review seemed most appropriate to the present investigation. Kreitler and Kreitler (1968) reported a method to determine response categories that were a function of the responses themselves. Kreitler and Kreitler asked judges to independently label statements given in response to stimulus words. The label represented that aspect of the stimulus or its reference conveyed by the statement. After semantic differences were resolved in discussion and the labels with common denominators were grouped together, the unanimity in labeling among independent judges was complete in 99% of the cases. Thirteen distinct labels enabled the grouping of 97.2% of the statements into clearly defined groups or categories.

A preliminary test of this approach, using the data from Experiment I, indicated that the Kreitler and Kreitler method could be used to determine those semantic categories of responses that were actually represented by the response words themselves. Further, when a sample of categorized response distributions were subsequently content analyzed, the psychological meaning usually could be determined. There were some difficulties in interpreting certain response distributions. These difficulties, however, were attributed to anomalies within the Experiment I data (e.g., the presence of the responses "work" and "job").

This preliminary test of the Kreitler and Kreitler method also suggested that the use of response categories could facilitate comparisons between occupational groups. To ensure the appropriateness of response categories to all occupational groups sampled, the categories were developed from the pool of responses compiled from all subjects, across all occupations.



34

Research Questions

This investigation was concerned primarily with the following research questions:

- 1. For subjects in a range of occupations, can work-related stimulus phrases elicit responses containing multiple semantic levels, all relevant to the subjects' personal work environments?
- 2. Will phrase-form stimuli, along with appropriate instructions to subjects, activate a work-related affective response domain?
- 3. Will subjects' pooled responses be useful to establish response categories common to all stimulus phrases and all occupations, categories that will both accurately classify responses and aid in determining the psychological meaning of each stimulus phrase?
- 4. Will an examination of the categorical distribution of responses within each occupation facilitate the inter-occupational comparisons and aid in determining the psychological meaning of each stimulus phrase within occupations?

Method

Subjects

Subjects were 19 automotive mechanics (all males), 19 secretaries (all females), and 19 computer data processors (14 males) employed in the metropolitan area of Columbus, Ohio. Ages ranged from less than 21 to more than 46 years within each occupation.⁶ The modal age range for all subjects was 31-35 years. All subjects had been employed for one or more years within their occupation, averaging 11.3 years, 6.6 years, and 7.4 years on-the-job experience for automotive mechanics, secretaries, and computer data processors, respectively. Data were collected at 15 different employment locations in sample sizes ranging from one to seven subjects.

Instrumentation

The 40 stimulus phrases listed in Table 5 (see page 31) were prepared in a continued-association format. That is, each phrase was printed in a column 15 times on a single sheet of $8\frac{1}{2}$ " x 11" paper, each repetition followed by a blank line, as follows:

^{6&}lt;sub>1t is not possible to report the exact age of any subject.</sub> Subjects were asked to check one of several blocks, each representing an age range of five years. However, the lowest age range block was labeled "under 21," and the highest was labeled "over 46."



| job knowledge | |
|---------------|--|
| job knowledge | |
| job knowledge | |
| job knowledge | |

etc.

Fifty-seven booklets of 40 pages each were then collated in six different random orders. In addition, each booklet contained a background information sheet appropriate to one of the occupational groups in the sample, a completed example of the word association task, and key portions of the instructions read to the subjects.⁷ Each set of 19 booklets appropriate to an occupation contained at least three different random orders of the 40 stimulus phrases.

Procedure

Data collection. Subjects were told that the stimulus phrases were constructed to find out what work means to people and what people think and feel about their work. Subjects were instructed to write responses that best expressed what each stimulus phrase meant to them in relation to their work situations. The experimenter asked all subjects to note that the completed stimulus phrase examples on the second page of each booklet contained many different single-word responses and that all example responses were appropriate. Subjects were asked to give single-word responses but were allowed to give multiple-word responses if they could not think of single-word responses. Finally, instructions were given to write as many responses as the stimulus phrases made them think of within the time allowed for each phrase. A 500 Hz, pre-recorded tone sounded on a tape recorder at 50 second intervals to signal the subjects to stop writing, turn the page, and begin writing responses to the next stimulus phrase. Each subject completed the task in a single test session. Following completion of the task, subjects were given additional information about the purpose of the experiment, and the experimenter answered subsequent questions.

<u>Category development</u>. The responses from all 57 subjects were pooled for each of the 40 stimulus phrases. However, a response was pooled only if it was given to a stimulus phrase by at least two subjects. These data were used to develop response word categories and are listed in their entirety in Appendix B.

Response categories were developed using a two-stage method suggested by Kreitler and Kreitler (1968). First, three judges, all educational researchers, were asked to independently examine the pooled response distribution for each stimulus phrase. Then, within the context of a stimulus phrase, judges were asked to determine which aspect of the stimulus phrase or its reference was conveyed by



⁷See Appendix B for stimulus phrase format data collection instrument,

each response word. Next, those response words that conveyed a common aspect were grouped together and assigned a label or a response category heading. For example, the responses "boring" and "exciting," given by computer data processors in response to the stimulus phrase "my job," were judged to convey a common aspect of the job, an aspect that judges subsequently assigned the label Action. This process was repeated for each stimulus phrase response distribution.

In the second stage of the categorization, judges worked together and were required to reach 100% agreement on each step. First, judges were required to reach agreement upon the groupings of responses within each response distribution and the labels assigned to each group. Next, judges were required to agree upon the minimum set of labels or categories which could subsume all responses given to all stimulus phrases.

After semantic differences were resolved in uscussion and the labels with common denominators were grouped together, there remained 13 categories of associative responses. Judges were then required, as a group, to derive a definition for each of the response categories.

Data analysis. Following the development of response categories, several analyses were performed. First, a content analysis was made on the pooled, categorized, response distributions given by all 57 subjects to a sample of seven stimulus phrases. Each stimulus phrase was considered a key representative of one of the seven different work-related categories.

Second, all responses given by the 19 subjects within each occupation were pooled for each of the 40 stimulus phrases. These response distributions are reported in Appendix B. These data separated the previously categorized, pooled associative response distributions into three occupational distributions, across the 13 common response categories. The three occupational distributions were then content analyzed and compared for inter- and intra- occupational similarities and differences in meaning.

Results and Discussion

Categories and Meaning

<u>Response category development</u>. The 13 conceptually distinct response categories derived by the judges are presented below, showing their percent of use. The percent of use represents the proportion of response words included in a particular category to the total number of response words (as listed in Appendix B). The categories, ranked by percent of use, were as follows:

1. Description or evaluation of the referent (52.10%) Responses included in this category indicated both relatively enduring descriptive qualities (e.g., me at work--responsible) and pure evaluation of the referent in terms of positive-negative polarity (e.g., my supervisor-good). It did not include responses that constituted the abstract or physical material of which the referent consisted. Not included were respontes that indicated both evaluation and one of the following aspects of the referent: action, frequency, quantity, or potency (e.g., my opportunities to do a variety of tasks-too many; opportunities for on-the-job training--not enough). These responses were included in the Action, Frequency, Quantity, and Potency categories described below.



37

2. <u>Referent's saliency</u> (10.23%) Responses included such terms as importance, necessity, and need (e.g., use of my abilities at work-necessary).

3. <u>What the referent consists of or includes</u> (7.46%) Responses included references to the abstract or physical material of which the referent consisted (e.g., opportunities to help others in the community-service), or to the items or parts which made up the referent (e.g., equipment used on my job-tools). The latter illustrates identification of the referent as a superordinat- concept or structure.

4. <u>Referent's quantity or amount</u> (7.05%) The following illustrates the responses included in this category: my working hours-eight.

5. <u>Referent's action(s) or potential for action(s)</u> (5.76%) Responses included indication of the referent's level or potential level of activity (e.g., me at work-busy or efficient); the novelty inherent to the referent (e.g., my opportunities for on-the-job training-variety); and indication of the referent as an invigorating, activating, or potentially activating force (e.g., my working conditions-relaxing or tense; my job-dull or exciting).

6. <u>Causes for the referent's occurrence/non-occurrence</u> (5.49%) This category included responses describing the conditions for the referent's occurrence/non-occurrence or existence/non-existence (e.g., daydreaming at work-boredom or no-time).

7. <u>Referent's frequency of occurrence</u> (5.34%) The following illustrates the responses included in this category: my overtime work-infrequent.

8. <u>Referent's potency</u> (1.89%) Responses indicated power and the things associated with power such as size, weight, and toughness (e.g., my prestige in the community-high; my supervisor's ability to handle people-strong).

9. <u>Consequences which result from the referent's existence or from one of its activities</u> (1.60%) Included were responses which did not imply the prime function, purpose, or role of the referent (e.g., my accomplishments at work-confidence).

10. <u>Referent's function, purpose, or role in the context of the worker</u> (1.21%) Included were responses describing the uses to which the referent may be put and is usually put (e.g., my pay-security; work methods-accuracy).

11. <u>Referent's manner of occurrence</u> (0.98%) Included responses describing a series of acts, activities, or operations characteristic of the referent as a dynamic process (e.g., my self-confidence at work-learning or training).

12. <u>Referent's similarity or contrast to other referents</u> (0.61%) The following illustrates the responses included in this category: my job-work.

13. <u>Referent's contextual allocation</u> (0.15%) Included responses to the abstract or physical structure to which the referent belonged or of which the referent formed a part.



~

The above response categories included 99.87 percent of the pooled responses reported in Appendix B. The remaining 0.13 percent were considered inappropriate responses to the stimulus phrase (e.g., the subjects appeared to have responded to another referent) and were not included among the response categories.

These 13 categories replicated 10 of the 13 categories of lexical meaning reported by Kreitler and Kreitler (1968) and included the three additional categories of <u>Saliency</u>, <u>Potency</u>, and <u>Frequency</u>. The mean number of categories per stimulus phrase was 4.97 categories (SD=1.35), as compared to 2.80 categories (SD=1.34) per stimulus word reported by Kreitler and Kreitler. This outcome was somewhat surprising since Kreitler and Kreitler's subjects were allowed to free associate to single words and to respond with sentences, a much richer form of communication. It had been expected that the present investigation would reveal substantially fewer categories, given the phrase form of the stimuli and instructions to try to limit responses to single words. However, the number of categories developed here suggested that single word responses can reveal one or more lexical or semantic aspects of the stimuli as well as sentence-form responses. Both studies, Kreitler and Kreitler (1968) and the present one, clearly supported the use of word association techniques to investigate the broad meaning of stimuli.

The work-related stimulus phrases, as expected, elicited multiple-semantic levels of responses representing various aspects of the work-related stimulus phrase. This was interpreted as a partial answer to the first of the four research questions posed for the study. Pooled responses were useful for establishing general semantic categories, and this was considered an affirmative response to the third research question.

The <u>Description/Evaluation</u> category was sufficient to include 52.10% of all responses, approximately five times as many as were included in the next largest category. Additional value-laden responses were included in the remaining 12 categories, which supported the expectation that the response distributions would emphasize the affective meaning of the work environment (research question two). Given that the instructions used in Experiment II were little different from those used in Experiment I, the phrase form of the stimuli was considered the major factor in establishing an affective response set.

The phrase form of the stimuli and the instructions that env.ouraged single-word responses appeared to be major reasons for the under-representation of responses within the <u>Contextual Allocation</u> (0.15%), <u>Similarity/Contrast</u> (0.61%), and <u>Manner of Occurrence</u> (0.98%) categories. The stimulus phrases provided a work-related context and encouraged descriptive rather than comparative responses. Also, use of the single-word response set made it difficult to characterize the referent as a dynamic process.

<u>Content and structure of meaning</u> in order to determine the extent to which associative responses revealed detailed affective and descriptive meaning, the pooled and categorized response distributions for seven selected stimulus phrases were content analyzed. The distributions are reported in Table 6. The seven stimulus phrases were selected to represent each of the seven general categories of work described earlier (see Table 5). A brief discussion of the content analysis follows.

The categorical distribution of responses among the seven selected stimulus phrases allowed comment on particular aspects of the stimulus phrases. The response categories themselves turned



out to be general modes of classification of phenomena, categories which appeared similar to what have been termed "attributes" or "dimensions" in studies of concept formation (Kreitler & Kreitler, 1968).

The content and structure of meaning was inferred from the pattern of responses within and among response categories. Thus, the meaning of a stimulus phrase was inferred from an examination of the responses contained within each of the response categories. For example, a part of the meaning of the stimulus phrase "my job" was inferred from an examination of responses within the response category <u>Function</u>. In general, as shown in Table 6, the sample of 57 subjects apparently viewed their job as a source of security and friends and, most of all, as a source of money.

Additional meaning and a structure of meaning for stimulus phrases was inferred from the comparison of responses across response categories. For example, when responses within the <u>Description</u>/ <u>Evaluation</u> response category and within the <u>Action</u> response category were compared for the stimulus phrases "my job" and "me at work," they suggested that the workers generally had characterized their job as rewarding and interesting and themselves as happy and busy. A few workers, however, described their jobs as dirty and boring and themselves as dissatisfied at work and as performing routine actions.

Thus, in response to the third research question posed for this investigation, response categories were useful in helping to identify the meanings workers associated with stimulus phrases. The responses within each of the associative response categories were examined to infer one aspect of meaning, while the responses among the several categories were examined to infer a structure of meaning.

These analyses of the categorized responses to all stimulus phrases revealed that artifactual responses were not present in the Experiment II data. The words "work" and "job," ubiquitous in Experiment I, were virtually non-existent within these pooled response distributions, and there was no evidence of other systematic, artifactual responses. Absence of artifactual responses was interpreted as further affirmation of the first research question posed for Experiment II. Further, responses were found to be relevant to the subjects' personal environment. Responses in Table 6 indicated clearly that the subjects' responses were specific to the work-related domain outlined by the stimulus phrase and represented personal viewpoints. The content analyses described briefly above indicated that response categories could be derived from pooled response data and could facilitate the identification of meaning.

Occupational Comparisons

Response distributions for each of the three sample occupations are reported in Appendices B-3. B-4, and B-5 and are categorized in Tables 7 through 12. Appendices B-3, B-4, and B-5 report all of the responses given within each occupation, by stimulus phrase and frequency of response. Tables 7 through 12 report only those occupation-specific responses given to each stimulus phrase by at least two subjects in the occupation. Thus, these tables do not contain all of the responses previously reported in the response distributions pooled across occupations and categorized in Table 6. A response was included in the pooled distribution and reported in Table 6 if it was given to a stimulus phrase by two or more of tr. 257 subjects regardless of which occupation they represented.

The response distributions reported in Tables 7 through 12 were content analyzed to determine the specific occupational meaning of the stimulus phrases. As an aid in these content analyses, the



Λ9



بە,

| Work Category | dol | Job Content: | | General N | General Need Satisfaction: | Compensation: | on: | Working Conditions | tions. | |
|--|--|--|------|--|---|------------------------|----------|---|--------------|--|
| Selected Stimulus Response Categories | E | çol ym | | | me at work | my pay | | rr.y working conditions | nditions | |
| 1. Description/Evaluation: positive | good fun fun rewarding 6 satisfying 3 helpful 3 enjoyable 3 adequate 2 good pay 2 fulfilling 2 | future secure like it pleasant i like it | ~~~~ | happy helpful friendly good content enjoyable fair concerred experienced | 8 knowledgeable 2 7 responsible 2 6 steady 2 3 honest 2 2 clean 2 2 neet 2 2 normal 2 2 reliable 2 2 reliable 2 | | ~ | good fair clean pleasant enjoyable excellent improving comfortable friendly | , | ~~ |
| negative | dirty 2 bad 2 | | | dissatisfied moody tired | 000 | could be better low | | could be better dirty crowded poor bad | | |
| 2. Saliency | necessary 5 important 2 | | | | | necessary | 2 | important necessary | 2 2 | |
| 3. Action | boring 5 interesting 5 exciting 4 challenging 3 | demanding dull | 32 | busy efficient interested bored | 10fast46routine24production24useful2 | varies | 2 | pressures relaxed unpressurec' | 222 | 1 |
| 4. Potency 5. Function | money 7 pay 2 | security friends | 5 5 | | | security | 2 | | | |
| 6. Consequences | | | | learning | 2 | | | morale | 2 | I |
| 7. Consists of/Includes | knowledge 5 typing 4 training 3 mechanic 2 | skill experience ability accuracy | 0000 | | | | | light space | 22 | |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Similarity/Contrast | work 3 | | | | | | | | | |
| 10. Frequency | | | | | | | ſ | | | |
| | | | | | | inadequate | 94 | 1 | | |
| | | | Τ | | | | | | | |
| 13. Manner of Occurrence | | | 1 | | | | | | | 1 |

41

•

50

| 0 |
|--|
| FRIC |
| Full Text Provided by ERIC |
| Full lext Provided by ERIC |

Table 6 (cont'd)

| Work Category | Super | Supervision : | | Company and Union: | d Union: | | Coworkers: | (ers: | |
|--|---|---|----------|---|----------|--|-----------------|--|-------|
| Selected Stimulus Response Categories | s fu | my supervisor | ├ | me at work | work | μ λ | ellow o | my fellow coworkers | |
| 1. Description/Evaluation: positive | ≜ = | understanding easy going great | | good fair ok | 0.004 | heipful friendly good | 17 15 10 | considerate kind competent | ~~~~ |
| | go⇔c 6 intelligent 5 ok b considerate 5 kind 4 experienced 4 nice 4 knowledgeable4 | thoughtful neat responsive smart dependable | ~~~~ | reasonable lenient agreeable fine heipful | 00000 | nice knowledgeable cooperative understanding accurate ok enjoyable | ᲝᲝ 44000 | experienced fair likeable fun great Young | ~~~~~ |
| negative | | | | unfair strict | 33 | unconcerned lazy | ~ ~ | | |
| 2. Saliency | | | | necessary important | 4 (1 | | | | |
| 3. Action | efficient 3 | | | flexible changeable | 53 | varied | 2 | | |
| 4. Potency | | | | | | | | | |
| | | | | | | | | | |
| 6. Consequences | | | | | | | | | [|
| 7. Consists of/Includes | | | | on time clean | 22 | | | | |
| 8. Contextual Allocation | | | | | | | | | |
| 9. Similarity/Contrast | friend 4 boss 3 | | | | | friends | 9 | | l |
| 10. Frequency | | | | | | | | | |
| 11. Quantity | | | | | | | | | ł |
| 12. Cause for (Non) Occurrence | | | | not enforced | 2 | | | | |
| 13. Manner of Occurrence | | | | | | | | | |

51

•



| | | dol ym | | my opportuni | my opportunities to do a variety of tasks | ety of tasks | my opportun | my opportunities to do challenging work | enging work |
|---|--|--|--|-----------------------|---|---|----------------------|---|---------------------------|
| Response Categories | Data Processors | f Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f |
| Description/Evaluation. positive negative | fun satısfyıng adequate helpful | 2 rewarding 3 2 good 2 2 fun 2 2 enjoyable 2 | good 4 like it 2 rewarding 2 fun 2 dirty 2 | good 4 excellent 3 | good 3 desired 2 challenging 2 | good 6 helpful 5 excellent 2 rewarding 2 | | good 3 | good 5 great 4 |
| 2. Saltency | | necessary 3 important 2 | | | important 2 necessary 2 | necessary 3 | important 2 | necessary 2 important 2 | |
| 3. Action | boring exciting | 2 Interesting 4 2 boring 3 dull 2 exciting 2 challenging 2 | | boring 2 | Interesting 4 | | varied 2 | | |
| 4. Potency | | | | | | | | | |
| 5. Function | | | money 6 | | | | | | |
| 6. Consequences | future | 2 | friends 2 | | | | | | |
| 7. Consists of/Includes | accuracy training | 2 typing 4 2 knowledge 2 | knowledge 2 | | | | | | |
| 8. Contextual Allocation | | | work 2 | | | | | | |
| 9. Similarity/Contrast | | | mechanic 2 | | | | | | |
| 10. Frequency | | | | | daily 2 | | frequent 2 | infrequent 3 | aiways 2 |
| 11. Quantity | | | | limited 2 many 2 | Inmited 2 unlimited 2 constantly 2 | none 3 | limited 2 | many 2 limited 2 | |
| 12. Cause for (Non)Occurrence | | | | knowledge 2 | | experience 2 | | | |
| . 13. Manner of Occurrence | | | | | | | | | |

43

52

•

÷



Table 7 (cont'd)

•

| | work | a e | work methods used on my job | l i i | ob | 3 | ork p | work pace used on my job | on my I | ob | my co | introl o | my control over work methods | nethods | |
|---|--------------------|--------------|-----------------------------|-------------|---------------------------|--------------------|-------|--------------------------|------------|---------------------------|----------------------|-------------|------------------------------|-------------------------|------------|
| Response Categories | Data Processors | | Secretaries f | | Automotive Mechanics f | Data Processors | ors f | Secretaries | 4 - | Automotive Mechanics f | Data Processors f | | Secretaries f | Automotive Mechanics | |
| Description/Evaluation positive | poof | 2 | friendly | ст о С | clean 2 | | | | | | faır | 2 good | d 2 | | 4 (|
| negative | | | 7 0006 | | | | | | | | , | | | good | 5 7 |
| 2. Saliency | | + | | | | | | - | | | | imp nece | important 2 necessary 2 | necessary | 4 |
| 3. Action | | ⊢ | efficient 5 | <u> -</u> - | | fast | 4 | slow | 5 | fast 3 | | ┞ | | | 1 |
| | | | | | | varies | 3 | 3 fast | 4 | | | | | | |
| | | | | | | quick | 2 | steady | | | | | | | |
| | | - | | | | steady | • | 2 moderate | | | | | | | |
| | | | | | | pressure | | | | | | <u> </u> | | | |
| | | | | | | hectic | 2 | hectic | 2 | | | | | | |
| | | | | | | speed | 2 | rushed | | | | | | | |
| 4. Potency | | | | | | | | | | | | | | none | 4 |
| 5. Function | organization | 2 | Improvement . 2 | | | | | | | | | | | safety | ~ |
| 6. Consequences | | † · | | | | | | | | | | - | | | 1 |
| 7. Consists of/Includes | | | neatness 2 | | air 2 tools 2 | | | | | | | | | | ł |
| R Contextual Allocation | | + | | 4 | | | | | T | | | + | | | |
| 9. Similarıty/Contrast | | + | | +- | | | | | | | | +- | | | I |
| 10. Frequency | | ┢ | | _ | | | | | | | | | | | |
| 11. Quantity | | \mathbf{t} | | ┢ | | | | | | | | | | none | 4 |
| 12. Cause for (Non)Occurrence supervision | | 2 | | <u>-</u> | knowledge 2 | | | | | | | | | | I |
| 13. Manner of Occurrence | | | | ц <u>х</u> | speed 2 | | | | | | | | | | |
| | | | | | | | | | | | | | | | ł |

53

44 [-



| | my cont | my control over work pace | ace | interferer | interference with my job | 0 | use of my a | use of my abilities at work | |
|---------------------------------------|----------------------|---------------------------|---------------------------|------------------------|--------------------------|------------------------------|-------------------------------------|-----------------------------|------------------------------|
| Response Categor:es | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics |
| 1. Description/Evaluation positive | good 2 | good 2 efficient 2 | good 3 | | | | good 2 | heipful 4 rewarding 2 | good 3 helpful 2 ves 2 |
| negative | | | | | | | | | |
| 2. Saltency | necessary 3 | necessary 2 | necessary 3 | | | | necessary 2 | | |
| 3. Action | fiexible 2 | | | | | | | | |
| 4. Potency | complete 2 | none 2 | none 4 | | | | | limited 3 | |
| 5. Function | | | | | | | | | |
| 6. Consequences | | | | | | | | | learning 2 |
| 7. Consists of/Includes | | speed 2 | speed 2 | personal problems 2 | noise 2 phones 2 | | | | |
| 8. Contextual Allocation | | | | | | | | | |
| 9. Similarıty/Contrast | | | | | | | | | |
| 10. Frequency | | | | | | | | | always 2 |
| 11. Quantiry | | | | none 2 minimum 2 | none 2 | none 4 aver ag e 2 | | | all 3 total 2 |
| 12. Cause for (Non)Occurrence | | deadlines 2 | | | | | accuracy 2 responsi- bility 2 | try 2 | |
| 13. Manner of Occurrence | | | siow 2 | | | | speed 2 | | |



Table 7 (cont'd)

| | | υλ cc | my computence at work | vork | | opporti | inities f | opportunities for on-the-job training | ob tra | Buiui |
|--|--------------------------------------|-------|-------------------------|-------------------------|------------|----------------------------|------------|---------------------------------------|--|-----------------------------|
| Response Categories | Data Processors f | + | Secretaries f | Automotive Mechanics | | Data Processors f | Š | Secretaries | | Automotive Mechanics |
| 1. Description/Evaluation: positive | good 2 excellent 2 | 2 3 | gocd 12 satisfying 2 | good fair | 5 7 | very good 2 excellent 2 | <u> </u> | heipful good | 4 00 | good 7 helpful J ok 2 |
| negative | | | | | | | | | | |
| 2. Salıency | | | | necessary | e | | сс ——— | necessary needed | s S S S S S S S S S S S S S S S S S S S | necessary 3 needed 2 |
| 3. Action | | | | fast | 5 | varıcty 2 | | | | |
| 4. Potency | adequate 3 increasing 2 high 2 | 5 5 3 | | none | C1 | | | | | |
| 5. Function | | | | | | | | | | knowiedge 2 |
| 6. Consequences | confidence 2 | | | | | | | | | |
| 7. Consists of/Includes | | L | | | | | | | | |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Sımilarity/Contrast | | | | | | | | | | |
| 10. Frequency | | | | | | | | | | everyday 2 |
| 11. Quantity | increasing 2 adequate 3 | ~~~~ | | | — — | many 2 | <i>c c</i> | none many | 2 2 | not enough 2 |
| 12. Cause for (Non)Occurrence | experience 3 | ~ | | | | | | | | |
| 13. Munner of Occurrence | | | | | | | | | | |

55

.

| Resonce Categores Data Decessors F Automotive f Processors F Automotive f Processors F Automotive f Processors F Description/Fvaluation: hspptul 2 sexellent 2 sexellent 2 sexellent 2 hepful 3 knowlede- accurate 2 Description/Fvaluation: hspptul 2 honest 2 honest 2 hepful 3 knowlede- accurate 2 negative 2 honest 2 honest 2 honest 2 hepful 3 knowlede- accurate 2 hep | | | | me at work | | E | my job security | | my fe | my feltow workers | | |
|--|-------|------------------------------------|-------|--|---|--------------------|------------------------|------|-------------------------------------|--|---|-------|
| Description/ Frandity Rapty Frandity Rapty Frandity | Ľ | Response Categories | SSOFS | Secretaries | Automotive Mechanics | Data Processors | Secretaries f | 1 0) | Data Processors | Secretaries f | Automotive Mechanics | - |
| negative disatified 2 dis | | Desciption/Evaluation: positive | >_ | happy helpful friendly enjoyable concerned | good clean fair honest neat | good excellent | р оо об | | lly 5 Jedge-3 ate 2 gent 2 | helpful friendly good cooperative nice likeable under- standing | heipful good friendly nice kind | N4400 |
| Salency important important important important is Action efficient 3 busy busy busy 3 busy busy <td></td> <td>negative</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>considerate 2 great 2 knowledge- able 2 lazy 2 unconcerned 2</td> <td></td> <td></td> | | negative | | | | | | | | considerate 2 great 2 knowledge- able 2 lazy 2 unconcerned 2 | | |
| Actionefficient 3 busy 2 bored 4 efficient 2 bored 3 efficient 2 efficient 2busy 3 bored 4 efficient 2 efficient 2busy 3 bored 4 efficient 2busy 3 bored 4busy 3< | | Saliency | | | | | necessary important | | | | | |
| Potency Potency Potency Inone Function Imp 2 Imp 2 Imp 2 Consequences Iearning 2 Imp 2 Imp 2 Consequences Iearning 2 Imp 2 Imp 2 Consists of/Includes Imp 2 Imp 2 Imp 2 Constst of/Includes Imp 2 Imp 2 Imp 2 Contextual Allocation Imp 2 Imp 2 Imp 2 Similarity/Contrast Imp 2 Imp 2 Imp 2 Similarity/Contrast Imp 2 Imp 2 Imp 2 Outantity Imp 2 Imp 2 Imp 2 Imp 2 Manner of Occurrence Imp 2 Imp 2 Imp 2 Imp 2 | 3. 4 | Action | ent | busy bored interested efficient | busy fast | | | | | | | |
| FunctionConsequencesLonsists of/IncludesContextual AllocationContextual AllocationSimilarity/ContrastFrequencyOuantityCause for (Non)OccurrenceManner of Occurrence | | otency | | | | | | | | | | I |
| Consequences learning Consists of/Includes Contextual Allocation Similarity/Contrast Frequency Prequency Ouantity Cause for (Non)Occurrence Manner of Occurrence |) (| Function | | | | | | | | | | |
| | | Consequences | | | | | | | | | | |
| | 7, 0 | Consists of/Includes | | | | | | | | | friends 4 | |
| | | Contextual Allocation | | | | | | | | | | |
| | | Similarity/Contrast | | | | | | | | | | |
| | | Frequency | | | | | | | | | | |
| | | Quantity | | | | | | | | | | |
| | | Cause for (Non)Occurrence | | | | | | | | | | |
| | 13. N | Manner of Occurrence | | | | | | | | | | |

Responses to Nork-Related Phrases Rep esenting General Need Satisfaction: By Occupation, Category, and Frequency Table 8



56

-



| | interactio | interaction with my corvorkers | orkers | opportunities | to help others i | opportunities to help others in the community | | moral "rightness" of my job | dol yr | |
|--|------------------------------------|---|---|----------------------|--------------------------|---|--|-----------------------------|-------------------------|-----|
| Response Categories | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics | - |
| 1. Description/Evaluation: positive negative | good 3 helpful 2 enjoyable 2 | t friendly 8 good 7 helpful 5 cooperative 2 adequate 2 enjoyable 2 | good 6 friendly 4 fair 3 helpful 3 | | rewarding 2 helpful 2 | good 2 heipful 2 | good 2. honest 2 question- able 2 | good helpful | 2 good | 4 M |
| 2. Saliency | necessary 4 | necessary 4 important 2 | necessary 2 | | | | | necessary 3 | 3 necessary | 7 |
| 3. Action | relaxing 2 | | | | | | | | | |
| 4. Potency | | | | | | | | | | |
| 5. Function | | | | | | | | | | |
| 6. Consequences | | | friends 2 | | | | | | | |
| 7. Consists of/includes | | | | | knowledge 2 | knowledge 2 | | | | |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Similarity/Contrast | | | | | | | | | | |
| 10. Frequency | frequent 2 infrequent 2 | | | | often 2 | | | | | |
| 11. Quantity | | | | many 2 limited 2 | | plentifut 2 | | | | |
| 12. Cause for (Non)Occurrence | | | | | | | | | | |
| 13. Manner of Occurrence | | | | | | | | | | I |



⁻ 57

| | recognitu | recognition for my work | | my pre | my prestige at work | | prestige of 1 | prestige of my job in the community | ommunity |
|--|-------------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------|---------------------------|----------------------|---|---------------------------|
| Response Categories | Data Processors f | Secretaries f | Au tomotive Mechanics f | Data Processors f | Secretaries f | Automctive Mechanics f | Data Processors f | Secretaries f | Automotíve Mechanics f |
| 1. Description/Evaluation: positive negative | normal 3 appreciative2 good 2 | helpful 2 | heipful 2 good 2 | good 5 adequate 2 helpful 2 | good 2 average 2 | good 4 average 2 | excellent 2 | unknown 2 | 9000d |
| 2. Saltency | | necessary 2 | necessary 2 | | | | | important 4 necessary 2 unimportant 2 | |
| 3. Action | | | | | | | | | |
| 4, Potency | | | | | little 2 tow 2 | | high 4 | little 2 | none 5 |
| 5. Function | | | | | | | | | |
| 6. Consequences | ego 2 | | | | | | | | |
| 7. Consists of/Includes | promotion 2 | appreciation2 | money 2 | | | | | | |
| 8. Contextual Allocation | | | | | | | | | |
| 9. Similarity/Contrast | | | | | | | | | |
| 10. Frequency | | | | | | | | | |
| 11. Quantity | adequate 3 | some 3 | none 3 | | | | | | |
| 12. Cause for (Non)Occurrence | a | | experience 2 | | | experience 2 | | | |
| 13. Manner of Occurrence | | | by others 2 | | | | | | |





•,

49

•

58



Table 8 (cont'd)

| | freedom to us | freedom to use my own judgment at work | nent at work | my self-c | my self-confidence at work | yrk | opportunit | opportunities for self-fulfillment | llment | |
|---|---|--|------------------------------|---|---------------------------------------|----------------------------|----------------------|------------------------------------|-------------------------|-----|
| Response Categories | Data Processors 1 | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries | Automotive Mechanics | + |
| Description/Evaluation. positive positive negative | helpful 2 good 2 adequate 2 satisfying 2 | | good 6 yes 2 helpful 2 | good 6 fatr 2 | good 4 | good 11 helpful 3 | open 2 | 5 900d | good rewarding | × × |
| 2. Saliency | necessary 3 -mportant 2 | necessary 2 | necessary 4 | important 2 necessary 2 | necessary 2 important 2 | necessary 4 | necessary 2 | important 2 | | |
| 3. Action | | | | varies 2 | | | varies 2 | | | ł |
| 4. Potency | | limited 4 often 2 | | | | | | | | |
| 5. Function | | | | | | | | | | |
| 6. Consequences | | | | | | | | | | |
| 7. Consists of/Includes | | | | | | | | | money | |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Simularity/Contrast | | | | | | | | | | |
| 10. Frequency | | | | | sometimes 2 | | | | | 1 |
| 11. Quantity | | | | | | | lih.ited 2 many 2 | little 2 many 2 few 2 | none | ~ |
| 12. Cause fcr (Non)Occurrence encouraged 2 | encouraged 2 | ability 2 | experience 2 ability 2 | experience 2 knowledge 2 training 2 | knowledge 4 ability 3 knowing 2 | training 2 experience 2 | | | | |
| 13. Manner of Occurrence | | | | performance 2 | | | | | | 1 |

| | feelin | ig of ai | g of accomplishment at work | at wo | ¥ | | dayo | lream | daydreaming at work | | | |
|--|--------------------|----------|-----------------------------|------------|-------------------------|----------|--------------------|-------|---------------------|----|-------------------------|-----|
| Response Categories | Data Processors | | Secretaries | | Automotive Mechanics | | Data Processors | - | Secretaries | + | Automotive Mechanics | + |
| 1. Description/Evaluation: positive | poob | ́ т | good great | 4 0 | poob | ~ | | Ì | | J | |] |
| negative | | | n | 4 | | | | | | | | |
| 2. Saliency | necessary | 7 | important worthwhile | 7 7 | necessary | 7 | necessary | 2 | | | | |
| 3. Action | | | | 1 | | | | | | | | |
| 4. Potency | high | 5 | none | 2 | | <u> </u> | | 1 | | | | |
| 5. Function | | | | | | | | | | | | |
| 6. Consequences | pride | 7 | | <u> </u> | | | | | | | | |
| 7. Consists of/Includes | | | | | | | | 1 | | | | |
| 8. Contextual Allocation | | | | <u> </u> | | | | | | Γ | | |
| 9. Similarity/Contrast | | | | | | <u> </u> | | | | | | |
| 10. Frequency | | | sometimes | 2 | | | | | infrequent | ~ | sometimes seldom | 5 3 |
| 11. Quantity | | | • | - | | | very little | 7 | none little | ~~ | none | 40 |
| 12. Cause for (Non)Occurrence | | | | | money | e | boredom | ~ | no time | m | | |
| 13. Manner of Occurrence | | | | | | | | | | | | |

Table 8 (cont'd)





Responses to Work-Related Phrases Representing Working Conditions: By Occupation, Category, and Frequency

Table 9

| | Ê | my working conditions | ditions | Ê | my working hours | 9 | ednba | equipment used on my Job | y job | |
|--|---|--|---|---|---------------------|---------------------------|---|--|-------------------------|----------|
| Response Categories | Data Processors f | Secretaries | Automotive f Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics | ↓ |
| 1. Description/Evaluation: positive | good 4 excellent 3 clean 2 fair 2 improving 2 | good pleasant enjoyable clean friendly | 5 good 4 fair 4 safe 2 clean 2 ok 2 ok 2 ok | busy good 3 satisfying 2 enjoyable 2 | 9 pood | ok 6 good 4 fair 4 | good 3 modern 3 reliable 2 new 2 adequate 2 | excellent 3 good 3 new 3 adequate 2 helpful 2 | fair heipful | 60 |
| negative | | Martin Martin | better 3 dirty 2 | | long 2 | loug 4 too early 2 | | | old | |
| 2. Saltency | important 4 | | | | necessary 2 | | | necessary 3 important 2 | necessary | т |
| 3. Action | relaxed 2 | 2 unpressured 2 | 2 | busy 3 | busy 2 | vary 2 | fast 3 interesting 2 | | | |
| 4. Potency | | | | | | | | | | |
| 5. Function | | | | | | | | | | ł |
| 6. Consequences | | | | | | | | | | |
| 7. Consists of/Includes | | light | 2 space 2 | | eight-to- five 2 | eight-to- five 3 | computer 5 paper 2 | typewriter 8 phone 5 adding 3 machine 3 pencils 2 pens 2 pens 2 dictaphone 2 files 2 postage 2 machine 2 | jack bench | ~~~ |
| 8. Contextual Allocation | | | | | | | | | mine | ~ |
| 9. Similarity/Contrast | | | | | | | | | | |
| 10. Frequency | | | | | | | | | | |
| 11. Quantity | | | | | eight 2 | | | | | |
| 12. Cause for (Non)Occurrence | 0 | | | | | | | | | |
| 13. Manner of Occurrence | | | | | | | | | | |



| | | с Ш | my overtime work | | | | | | my coffeebreaks | eaks | | |
|---|---|--------|--|------------------|-------------------------|-----|----------------------|----|------------------------------|-------|-------------------------|---|
| Response Categories | Data Processors | + | Secretaries | | Automotive Mechanics | f | Data Processors | f | Secretaries | | Automotive Mechanics | - |
| Description/Evaluation: positive negative | | | unfair 2 | | helpful | 3 | helpful short | 2 | good helpful 2 short 4 | 4 3 3 | short | 4 |
| 2. Saliency | necessar y important unnecessar y | 000 | not necessary 2 unnecessary 2 unnecessary 2 necessary 2 | | necessary | N | necessar y useful | 00 | necessary E needed 2 | 52 | | |
| 3. Action | | Ţ | | $\left \right $ | | † | relaxıng | m | relaxing 2 | 10 | relaxıng | 5 |
| 4. Potency | | | | | | | | | | | | |
| 5. Function | | | | | | | | | | | | |
| 6. Consequences | no pay | 2 | compensation 2 | 2 | money more money | 5 5 | | | | | | |
| 7. Consists of/Includes | | | | | | | | | friends talk | 5 5 | rest | 2 |
| 8. Contextual Allocation | | | | | | | | | | | | |
| 9. Similarity/Contrast | | | | | | | | | | | | |
| 10. Frequency | | | infrequent 3 rare 2 | 5 3 | | | * | | | | | |
| 11. Quantity | | | none 4 very little 3 | 4 K | none | 9 | | | | | all day | 3 |
| 12. Cause for (Non)Occurrence | | | | | | | | | | | | |
| 13. Manner of Occurrence | | | | —— | | | | | | | | |

| 0 |
|----------------------------|
| FRIC |
| Full Text Provided by ERIC |

Table 10 Responses to Work-Related Phrases Representing Supervision: By Occupation, Category, and Frequency

| | E | my supervisor | | supervisor's | supervisor's ability to handle people | e people | Interaction | interaction with my supervisor | visor | |
|---|---|---|---|--|--|---------------------------------------|----------------------|--|-------------------------|-------------|
| Response Categories | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics | |
| 1., Description/Evaluation: positive negative | fair 4 ok 3 friendly 3 helpful 3 good 2 knowledge- able 2 under- standing 2 experienced2 | friendly 5 considerate 4 intelligent 3 kınd 3 faır 2 faır 2 goo ^d 2 goo ^d 2 nice 2 great 2 great 2 knowledge- able 2 helpful 2 | helpful 6 friendly 4 good 2 fair 2 ok 2 smart 2 smart 2 | fair 3 under- 3 standing 3 adequate 2 good 2 poor 2 poor 2 | great 4 good 4 far 3 tactful 3 filendly 3 easy 2 capable 2 not good 2 | good 9 fair 5 ok 3 helpful 2 | good 6 helpful 3 | good friendly 6 conperative 3 kind 2 great 2 honest 2 helpful 2 helpful 2 | good ok heipful | <u>ა</u> ოო |
| 2. Saliency | | | | necessary 2 | necessary 3 | | necessary 4 | important 4 necessary 3 | necessary | 5 |
| 3. Action | easy going 2 | efficient 2 | | | calın 2 | | | | | |
| 4. Potency | | | | | | | | | | |
| 5. Function | | | | | | | | | | l |
| 6. Consequences | | | | | | | | | | |
| 7. Consists of/Includes | | | | | | | | | | |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Similarity/Contrast | | | friend 2 boss 2 | | | | | | | ł |
| 10. Frequency | | | | | | | | | | |
| 11. Quantity | | | | | | | | | none | ~ |
| 12. Cause for (Non)Occurrence | | | | | | | | | | |
| 13. Manner of Occurrence | | | | • | | | | | | |
| | | | | | | | | | | |

54

¥



| | super | rvisor's | supervisor's evaluation of my work | | | |
|--|--------------------|----------|------------------------------------|--------|-------------------------|----------|
| Response Categories | Data Processors | + | Secretaries | ŧ | Automotive Mechanics | 4 |
| 1. Description/Evaluation: positive | | 44(| good appreciative | 7 2 | good helpful | ຜາວ |
| negative | accurate | | | | poor | 5 |
| 2. Salıency | important | 2 | important | 2 | necessary | ю |
| 3. Action | | | | | | |
| 4. Potency | | | | | | |
| 5. Function | | | | | | |
| 6. Consequences | | | | | | |
| 7. Consists of (Includes | | | | | | |
| 8. Contextual Allocation | | | | | | |
| 9. Similarıty/Contrast | | | | | | |
| 10. Frequency | | | | | | |
| 11. Quantity | | | none | 2 | none | 2 |
| 12. Cause for (Non)Occurrence | | | | | | |
| 13. Manner of Occurrence | | | | | | |



Responses to Work Related Phrases Representing Company and Union. By Occupation, Category, and Frequency Table 11

•,

| | company | company policies on my job | dol | handling of | handling of grievances on my job | dol Yr | the | the union on my job | do |
|--|----------------------|-----------------------------------|---------------------------|----------------------|----------------------------------|--------------------------|---|---------------------|---------------------------|
| Response Categories | Data Processots f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries 1 | ۰tomotive Mechanics f | Data Processors f | Secretaries f | Artomotive Mechanics f |
| Description/Evaluation: positive | good 3 farr 3 | reasonable faır | | faır 2 | faır 2 adequate 2 | good 2 | | helpful 2 good 2 | |
| negative | | good 2 agreeable 2 unfair 2 | ok helpful | poor 2 | poor 2 | poor 2 | | | |
| 2. Salıency | | necessary 3 | | necessary 2 | | | unneedec ² 2 unnecessary2 | necessary 2 | needed 2 unnecessary 2 |
| 3. Action | flexible 2 | | | | | | | | |
| 4. Potency | | | | | | | | | |
| 5. Function | | | | | | | | | |
| 6. Consequences | | | | | | | | | |
| 7. Consists of/Includes | | | ori time 2 clean 2 | | | | | | |
| 8. Contextual Allocation | | | | | | | | | |
| 9. Similarity/Contrast | | | | | | | | | |
| 10. Frequency | | | | | few 2 | | | | |
| 11. Quantity | - - - | | | | | | none 5 non- | none 11 | none 14 |
| | | | | | | | existent 3 | | |
| 12. Cause for (Non)Occurrence | | | | | | | | | |
| 13. Manner of Occurrence | | | | | channels 3 | | | | |
| | | | | standing 3 | under- standing 2 | | | - | |

. \$

56

65

-



Rest, inses to Work Related Phrases Representing Compensation: By Occupation, Category, and Frequency

| 1 | | Apd Au | | my oppor | my opportunities for promotion | omotion | Ϋ́ | my fringe benefits | | |
|--|---------------------------------------|------------------------------|--------------------------------------|----------------------|---|---------------------------|---------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|
| P · ponse Categories | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries f | Automotive Mechanics f | Data Processors f | Secretaries 1 | Automotive Mechanics | + |
| 1. Description/Evaluation: positive | fair 3 | good 7 better 2 fair 2 | good 6 fair 4 could be 3 | | possible 2 | good 2 | helpful 5 good 2 adequate 2 | helpful 6 good 5 adequate 2 | good 3 are good 2 fair 2 ok | m n n n |
| negative | | | | | improbable 2 | | | | ild be etter | . |
| 2. Saltency n | necessary 2 | | | | | | | necessary 3 important 2 | | |
| 3. Action | | | varies 2 | | | | | | | |
| 4. Potency | | | | | | | | | | l |
| 5. Function | | | | | | | | | | l |
| 6. Consequences | | | | | | | | | | |
| 7. Consist ~ ~ f/Includes | | | | | | | insurance 2 retirement 2 walk 2 | | insurance vacation uniforms | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
| | | | | | | | | medical insurance 2 | | 1 |
| 8. Contextual Allocation | | | | | | | | | | |
| 9. Similarity/Contrast | | | | | | | | | | |
| 10. Frequency | | | | | | | | | | |
| 11. Quantity ir a | adequate 6 inadequate 3 ample 2 | not enough 2 average 2 | not enough 2 could be better 3 | none ,2 m∍ny 2 | Inmited 2 | none 5 | many 2 | many 3 | none | 5 |
| 12. Cause for (Non)Occurrence | | | | accuracy 2 | ability 2 me 2 knowledge 2 experience 2 education 2 | | | | | |
| 13. Manner of Occurrence | | | | | | | | | | |

-

Evaluative Dominance Index (EDI), suggested by Szalay and Lysne (1970), was used to index the dominance of positive or negative valuative responses as a portion of all the responses given by two or more workers to each stimulus phrase by each occupational group. The term "affective" was substituted for the term "evaluative" in the name for the index since the response distributions were determined to represent several dimensions of affect: emotion, interest, feelings, and values. Collectively, these dimensions parallel those outlined by Krathwohl et al. (1964) and support the conceptualization of affect offered in Chapter I. The ADI was computed for each stimulus phrase and separately for each occupational group as follows:

Affective Dominance Index (ADI) =

 $\underline{\cancel{2}}$ positive responses, trequencies $\underline{2} - \underline{\cancel{2}}$ negative responses, frequencies $\underline{2} \times 100$ $\underline{\cancel{2}}$ all responses, frequencies $\underline{2}$

The ADI ranges in numerical value between plus and minus 100. The sign indicates the direction of the affect (i.e., plus for a positive direction and a minus sign for a negative direction), and the numerical value reflects intensity of affect. Responses to each stimulus phrase were first judged as positive, negative, or neutral in value. Subsequently, the totals were used in the computation of the ADI's which are reported in Table 13, by stimulus phrase and occupation.

With few exceptions, the entries in Table 13 are positive, reflecting the overwhelming percentage of responses judged as indicating positive valuation. Overall, the table indicates that the subjects viewed their work environments much more positively than negatively. Similarly, Gottleib (1973) reported that the majority of 1,860 male and female college seniors expressed favorable attitudes toward work and saw work as a critical and necessary part of life. Thus, a positive view of the work ethic is not uncommon. In the following discussion of the occupation-specific content analyses, it was deemed unnecessary to repeatedly note positive associations. Instead, the reader should assume that the majority of the responses to each stimulus phrase were positive. The exceptions, those phrases which elicited a majority of negative responses, are noted and discussed. Tables 7-12 each represents one of the general work categories and each is discussed separately.

<u>Job Content</u> (Table 7). A relatively small contingent of computer data processors indicated that their jobs were boring, that there were few opportunities to do a variety of tasks and limited opportunities to do challenging work. The majority indicated just the opposite. Responses also indicated that the majority of computer data processors felt that on-the-job training was very good and their abilities were being well used; they felt competent and exercised control over their work pace. Data processors rated control of work pace the most important concept within this work category. Of the three occupations sampled, only data processors indicated that they associated their job with a career.

A relatively small but consistent number of secretaries felt some boredom on the job and characterized the work pace as slow. They felt they had limited chances to do challenging work and that much of their abilities were not being used. However, the variety of tasks accomplished seemed relatively high, which seemed to characterize the secretaries' job content as varied but less than demanding. Related to this, self-competence was rated high, suggesting that some secretaries had achieved a high level of competence in performing routine work. On-the job training for secretaries was considered very necessary and important, which again suggested the need for additional, challenging work.





| Work Category | | Data cessors | Se | cretaries | | omotive hanics |
|---|-------------|-----------------|----------|-------------|----------|-------------------|
| Job Content | | | | | | |
| my job | | 44 | | 61 | | 62 |
| my opportunities to do a variety of tasks | | 47 | | 65 | | 65 |
| my opportunities to do challenging work | | 25 | | 29 | | 100 |
| work methods used on my job | | 67 | | 100 | | 20 |
| work pace used on my job | | -23 | | -19 | | 0 |
| my control over work methods | | 100 | | 100 | | 37 |
| my control over work pace | | 0 | | 33 | | 14 |
| interference with my job | | 33 | | ·33 | | 33 |
| use of my abilities at work | | 40 | | 27 | | 87 |
| my competence at work | | 37 | | 100 | | 62 |
| opportunities for on-the-job training | | 100 | | 59 | | 69 |
| | Avg. | 52 | Avg. | 50 | Avg. | 50 |
| General Need Satisfaction | | | | | | |
| me at work | | 86 | | 51 | | 100 |
| my job security | | 100 | | 100 | | 29 |
| my fellow workers | | 100 | | 77 | | 100 |
| interaction with m coworkers | | 76 | | 100 | | 90 |
| opportunities to help others in the community | , | 0 | | 75 | | 75 |
| moral "rightness" of my job | | 33 | | 100 | | 100 |
| recognition for my work | | 50 | | 44 | | 20 |
| my prestige at work | | 100 | | 0 | | 100 |
| prestige of my job in the community | | 100 | | 17 | | 11 |
| freedom to use my own judgment at work | | 100 | | 0 | | 78 |
| my self-confidence at work | | 54 | | 50 | | 82 |
| opportunities for self-fulfillment | | 40 | | 38 | | 61 |
| feeling of accomplishment at work | | 78 | | 57 | | 75 |
| daydreaming at work | | .33 | | <u>·100</u> | | -75 |
| | Avg. | 63 | Avg. | 43 | Avg. | 71 |
| Working Conditions | | | | • · | | 50 |
| my working conditions | | 100 | | 91 | | 50 |
| my working hours | | 100 | | 50 | | 32 |
| equipment used on my job | | 71 | | 39 | | 29 |
| my overtime work | | 33 | | 09 | | 57 |
| my coffeebreaks | | 82 | | <u>73</u> | | 60 |
| | Avg. | 77 | Avg. | 52 | Avg. | <u>40</u> |
| Supervision | | 100 | | 100 | | 91 |
| my supervisor | | | | 86 | | 100 |
| supervisor's ability to handle people | | 71 | | | | |
| interaction with my supervisor | | 100 | | 100 | | 78 |
| supervisor's evaluation of my work | <u> </u> | | <u> </u> | <u>69</u> | <u> </u> | 60 |
| | Avg. | 93 | Avg. | 89 | Avg. | 82 |
| Company and Union | | 100 | | <u> </u> | | 70 |
| company policies on my job | | 100 | | 69 | | 73 |
| handling of grievances on my job | | 22 | | 15 | | 0 |
| the union on my job | | .33 | A | 12 | | <u>0</u> 24 |
| | Alvg. | 30 | Avg. | 32 | Avg | |
| Compensation | | 62 | | 47 | | |
| my pay | | | | -12 | | 43 |
| my opportunities for promotion | | 0 65 | | 64 | | 25 ² |
| my fringe benefits | Avg | 42 | Avg. | 33 | Avg. | |
| | <u>_~'y</u> | 72 | | | ~*y. | |
| Total Av | erage | 61 | | 49 | | 51 |

Table 13 Index of Affective Dominance: By Occupation, Work Category and Stimulus Phrase



Most automotive mechanics viewed their jobs positively and indicated that its most important function was as a source of income. The mechanics' jobs were seen as challenging and as ones that used their abilities which, collectively, seemed to be the key to why on-the-job training, self-competence, and control over work pace were rated very important and necessary. The work pace was fast, and some mechanics indicated no control over work pace or work method. Briefly, the automotive mechanics' jobs seemed to be demanding, challenging, and, in many cases, done strictly by the book, as fast as possible. The jobs were seen as rewarding, and it was possible to construe much of that reward as money.

Comparisons between occupations were facilitated by the occupationally-specific ADI's computed for tach stimulus phrase. For example, the ADI's for each of the stimulus phrases within the <u>Job Content</u> category differentiated between the three occupations, with the exception of the ADI's for the stimulus phrases "my job" and "opportunities to do a variety of tasks." Further, the ADI's provided a useful affective summary index of the detailed content analyses. This allowed inter- and intra-occupational comparisons to be made at a glance. Thus, the ADI's indicated, for example, that atuomotive mechanics viewed their opportunities to do challenging work and on-the-job use of their abilities more positively than did either computer data processors or secretaries. As discussed above, content analysis of the associative responses supported this last conclusion. The ADI's also indicated that the secretaries felt more self-competence on the job and were more accepting of the methods used that more control over the work pace than did secretaries or automotive mechanics. Both examples again illustrate that the ADI serves as a useful summary index for comparative purposes and that the index is sensitive to the polarity and intensity of attitude.

<u>General need satisfaction</u> (Table 8). Computer data processors characterized themselves as happy and efficient. They indicated a feeling of accomplishment and celf-confidence at work and felt that they were free to use personal judgment. Computer data processing appeared to offer high job security and personal prestige on the job and in the community. Fellow workers were positively described, and interaction with co-workers was rated highly. To a lesser extent, data processo: indicated that their work received recognition.

On the other hand, a number of data processors indicated that their opportunities for self-fulfillment and opportunities to help others was limited. Also, a few questioned the morality of their occupation. In general, computer data processing, as an occupation, seemed to satisfy the security, social, and autonomy needs and, to a lesser extent, the esteem and self-actualization needs.

Responses indicated that some secretaries were often bored and dissatisfied with their jobs. Secretaries indicated that their position had low prestige at work and in the community, there were few opportunities for self-fulfillment, and freedom to use personal judgment was limited. To a lesser extent, secretaries indicated that they lacked a feeling of accomplishment. A few recponses indicated that some secretaries were critical of their fellow workers.

On the positive side, the secretaries indicated that their jobs were secure and morally defensible. Interaction with fellow orkers was good, and opportunities to help others in the community was rated highly. The security and social aspects of the secretaries' jobs were the major sources of need satisfaction. The higher order needs, esteem, autonomy, and self-actualization, were evidently not part of the secretarial job structure.



Automotive mechanics responses to the stimulus phrase "me at work" included "clean," "fair," "honest," "neat," and "busy." Fellow workers and interaction with fellow workers were described positively. Mechanics indicated that they were self-confident in their work, and felt that freedom to use their personal judgment was a function of experiences and ability and was not otherwise limited. Responses further indicated that the morality of the occupation and opportunities to help others were viewed favorably. Prestige on the job was rated favorably and seen as a function of experience. Negatively speaking, auto mechanics indicated that job security was not guaranteed and surprisingly, not considered salient by a large number of subjects. Further, responses indicated that mechanics' prestige in the community was considered debatable.

Automotive mechanics' responses to the stimulus phrases "opportunities for self-fulfillment," "feeling of accomplishment at work," and "recognition for my work" revealed the important place that money occupied in the structure of their jobs. The responses to the three phrases indicated that opportunities for self-fulfillment and feelings of accomplishment were good, but that recognition for their work was sometimes not forthcoming. In all three phrases, the response "money" was present, suggesting that it was a salient factor in general need satisfaction. Overall, the auto mechanics' job structure was a better source of satisfaction for the relatively higher social, autonomy, and self-actualization needs than for security and esteem needs.

Comparisons between occupations for the <u>General Need Satisfaction</u> category of work revealed several similarities and differences in the structure of the work environment. With the noted exceptions, subjects in all occupations described themselves positively, felt self-confident, and saw their opportunities for self-fulfillment as somewhat limited. In general, subjects described their co-workers positively and unanimously viewed interaction with co-workers favorably.

Computer data processors enjoyed a more prestigous occupational position and indicated a higher feeling of accomplishment than did either secretaries or automotive mechanics. Both data processors and automotive mechanics were free to excercise more personal judgment than secretaries. Automotive mechanics alone stressed money as an important factor of the job and shared with data processors a high prestige at work. Secretaries viewed interaction with their co-workers as more important than did data processors or automotive mechanics. Finally, both data processors and secretaries indicated that job security was a more salient and more prevalent aspect of their jobs than did automotive mechanics.

The ADI's reported for each stimulus phrase in Table 13 in general reflected the similarities and differences revealed by content analysis of associative responses in the <u>General Need Satisfaction</u> work category. Also, since the secretaries reported fewer sources of need satisfaction than did either data processors or automotive mechanics, the average ADI for all stimulus phrases within this work category rather accurately indicated a less positive ADI for secretaries than for automotive mechanics and data processors.

<u>Working conditions</u> (Table 9). Computer data processors indicated that overtime work was a relatively necessary part of the job and occurred, in some cases, without pay. The working hours were generally good and were busy. The equipment was considered modern and often interesting. Coffee breaks were relatively short, relaxing, necessary, and could even be useful. Data processors reported that the working conditions per se were good, and "my working conditions" was considered the most salient concept within this category.



Secretaries considered overtime as relatively unnecessary and unfair. They also indicated that overtime was rare and sometimes resulted in compensation, suggesting that some secretaries did not receive pay for their overtime work. The response "unfair" would support this contention. Related to this, some secretaries indicated that the working hours, while generally good, were long.

Secretaries rated the equipment that they used as a salient part of their environment and listed a number of different items that were often used. Responses further indicated that coffee breaks were relaxing and provided the chance to talk to friends. "Coffee breaks" was considered the most salient concept in this work category.

Automotive mechanics indicated that overtime was not common, but was helpful, and definitely meant more money. Responses further indicated that the mechanics working conditions were dirty and could be better, but this may have been a generally accepted part of the job. The working hours were sometimes long and could begin at an early hour. Coffee breaks were short and were considered an opportunity to rest. The equipment used by automotive mechanics was considered important and some responses indicated that the equipment was old.

Comparatively, computer data processors considered their working hours and the equipment used more favorably than did secretaries or automotive mechanics. Automotive mechanics were unique in viewing overtime positively. The ADI for stimulus phrases within this category, <u>Working Conditions</u>, again reflected the import of the content analyses. Data processors gave fewer negative responses overall than did the secretaries and considerably fewer than automotive mechanics, and this is accurately indicated by the average ADI for each occupation.

<u>Supervision</u> (Table 10). Computer data processors indicated that interaction with their supervisor was necessary, and a few data processors indicated that their supervisors' ability to handle people was poor.

Secretaries indicated that interaction with their supervisors was the most salient concept in this work category, reflecting the number of the supervisor-secretary relationship. Relatively few of the secretaries' responses indicated that some supervisors' ability to handle people was not good.

The majority of automotive mechanics' responses indicated that the "supervisor's evaluation of my work" was the most necessary concept within this work category. However, a few responses indicated that for some mechanics the supervisors did not evaluate their work. A small number of automotive mechanics indicated that their supervisors' evaluation was poor.

In comparing occupations it was clear that stimulus phrases within the <u>Supervision</u> work category had collectively elicited responses with the highest positive level of valuations when compared to the other work categories. Both content analyses of associative responses and the average ADI's supported this conclusion. However, it was interesting to note that none of the subjects, in any of the three occupations, indicated that the supervisor was either necessary or important. These occupational content analyses of the responses to phrases within this work category essentially reflected the differences and similarities between the three occupations.

<u>Company and union</u> (Table 11), Computer data processors indicated that company policies were flexible and that the handling of grievances was usually an informal process. In addition, the union was seen as an unnecessary part of the job.



____62

Secretaries indicated that there had been few grievances on the job and that these had been handled both formally and informally. However, the union was considered necessary by a few subjects.

Automotive mechanics appeared to disagree on the necessity of a union. Company policy concerning cleanliness and tardiness appeared to be an important aspect of the mechanics' jobs.

The majority of subjects in all occupations indicated that they did not belong to unions. Also, a small number of subjects in all occupations felt that the handling of grievances was poor. Only a few secretaries indicated that company policies were unfair.

<u>Compensation</u> (Table 12). The results of the occupational content analyses and comparisons between occupations have been combined in the following discussion of this work category.

Within the three occupations, secretaries alone considered fringe benefits a salient part of the job, and only automotive mechanics indicated that there were either limited or no fringe benefits. A few workers in each occupation indicated that pay was inadequate.

Computer data processors indicated that the chances for promotion varied and were perhaps keyed to performance. The majority of responses reported for both secretaries and automotive mechanics indicated that promotion was not generally a possibility; again, this was clearly reflected in the ADI's.

The content analyses of Tahles 7-12 indicated that the use of response categories could aid in determining the psychological meaning of each stimulus phrase within occupations and could facilitate inter-occupational comparisons (research question four). Content analyses of categories allowed two aspects of the psychological meaning of the work environment, content and structure, to be determined in detail for each occupation. Further, the use of categories allowed detailed comparisons of similarities and differences between occupations for all aspects of the work environment.

Summary

Using the word association paradigm an attempt was made to determine the non-technical psychological meaning, especial' the affective meaning, of the work environment for groups of workers in three different occupations. Methodologically, this was accomplished by first using work-related phrases as stimuli and instructing subjects to write responses that best expressed what they felt toward each stimulus and what it meant to them. Second, a dimensional analysis, by occupation, was performed on the responses. This was accomplished by first developing categories that were a function of associative responses given by subjects from all occupations and then separating these categorized associative responses by occupation. Finally, the ADI statistic was used to summarize the affectivity workers assigned to each of the stimulus phrases.

Content analyses of the categoriezed associative responses provided empirical support for the complexity of affect and for the intimate relationship between affect and cognition. Meaning often emerged as a pattern or structure of value-laden responses given to two or more stimulus phrases. For example, automotive mechanics indicated that their jobs were "rewarding," and the general



meaning of this word would ordinarily suggest that their jobs satisfied a broad range of needs. However, in view of the fact that the response "money" was also associated with self-fulfillment, recognition, and accomplishment, it was concluded that the automotive mechanic's job was primarily financially rewarding, and therefore the response "rewarding" was interpreted in a narrower sense.

Results of the content analyses provided essentially affirmative answers to the four research questions posed for this investigation. It was concluded that the present investigation, using the described methods, was effective in determining both the content and structure of the affective and descriptive meaning of the work environment for computer data processors, secretaries, and automotive mechanics. In addition, detailed similarities and differences were identified among the occupations.



CHAPTER VI

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Summary

This investigation was concerned with the development of procedures and techniques to measure affect. Specifically, attempts were made to measure the content and pattern of affective meaning, in the form of verbalized feelings that workers use to describe their work environment; and the relation of that affective pattern to the more descriptive, cognitive meanings.

Impetus for the investigation was provided by the current need to establish affective objectives in career education. The need for affective objectives, in turn, required detailed information about the dimensions of affect that individuals actually use to structure their feelings about their jobs. There was, however, no single instrument available to assess the range of affective meaning assigned to the work environment. There were at least three reasons for the lack of an appropriate instrument. First, affect is complex and multidimensional and may include such variables as personal awareness, attitudes, interests, values, and personal characterization (Krathwohl et al., 1964), Also, affect is virtually inseparable from other, more cognitive based components of meaning. Therefore, since most affective assessment instruments were designed to exclude assessment of cognition and assess, at most, only two or three components of affect, they were considered inappropriate. It was assumed that a more appropriate measure should reveal the pattern of affectivity and the relation of that pattern to the cognitive domain. Second, an appropriate instrument did not exist because there was a lack of agreement on which variables in the affective domain should be assessed (Brown, 1971; Walther, 1970). Third, because affective development has traditionally been considered outside the scope of formal school-based education, there has been little demand to assess affective changes related to classroom instruction. It was noted that this view is changing and should no longer represent a barrier to instrument development. However, it was concluded that, for ethical reasons, only those dimensions of affect that are work-relevant or which facilitate self-development should be considered and assessed in the classroom and at work.

A consideration of the above barriers to the development of an appropriate instrument with which to investigate the work environment led to the conclusion that a set of systematic techniques and methods was needed to identify and assess (a) the multidimensional structure of work-related affect and its relation to the cognitive mediated structure of meaning of the work environment; (b) those affective dimensions relevant to the work environment, particularly those related to success; and, (c) the affective dimensions which facilitate self-development. Given these three criteria for an appropriate instrument to assess affect, a particularly promising method appeared to lie within the word association paradigm.

Associative techniques, in which a subject responds to a stimulus object by giving the first word, image, or thought that occurs to him, have been used successfully in explicating both affective and



cognitive mental processes (e.g., Jung, 1910; Wyman, 1925; Terwilliger, 1964). Moreover, associative techniques have been used to explicate specific psychological domains (e.g., the psychoanalytic domain; Rapaport, Gill, & Shafer, 1946). Finally, dimensional analyses of word associations have revealed multidimensional semantic structures of particular association networks (e.g., Reese, 1960; Bousefield, 1957). It was concluded, therefore, that the word association paradigm was appropriate for the present research goals. That is, such material should delineate associative processes specific to she work environment and should provide means to determine both the content and structure of those processes.

The present investigation was conceived as an attempt to develop procedures which could be used to assess work-relevant affect. The undertaking was considered an exploratory effort which, if successful, would suggest a method by which work-relevant affect, a complex phenomenon, could be comprehensively assessed.

Stimulus Word List Development

Words given as responses by workers to stimulus objects were assumed to be verbal tags or labels for underlying concepts. It was further assumed that to assess work-relevant affect, the list of stimulus words pregented to workers should be representative of a comprehensive list of aspects or categories within the work environment. A review of occupationally related literature, along with a subsequent nine-member panel review identified the following important categories within the work environment;

<u>Job Content</u>: All of the intrinsic aspects of the work itself (but not including those aspects listed under <u>General Need Satisfaction</u>, below) including the subcategories <u>Assignment and Perceived Complexity of Tasks;</u> <u>Control of Work Methods and</u> Work Pace; and Skills and Abilities of Workers.

<u>General Need Satisfaction</u>: A hierarchy of basic needs including the subcategories <u>Security</u>, the desire for a predictable, structured, reliable environment, and the desire for "fairness" and a familiar non-threatening environment; <u>Social</u>, the desire for belonging, the desire for association. for acceptance by one's fellows, for giving and receiving friendship; <u>Esteem</u>, the desire for reputation or prestige, status, dominance, recognition, attention, importance, or appreciation; <u>Autonomy</u>, the desire for independence and freedom, the desire for achievement, competence, mastery, adequacy and confidence; and <u>Self-Actualization</u>, the desire to realize one's own potential, the desire for growth and self-development.

<u>Working Conditions</u>: Included the physical aspects of the work environment; equipment used on the job, and the work methods and pace required.

Hours of Work: Included working hours, overtime work, coffeebreaks.

Supervision: Included relationships between the worker and his immediate supervisor.



<u>Company and Union</u>: Included aspects of the worker's immediate situation which are a function of organizational administration such as company policy, handling of grievance, and the presence or absence of a union.

<u>Compensation</u>: Included wages, financial or professional promotions and the fringe benefits of a job such as policies that prepare the worker for emergencies, illness, old age and hospitalization, holidays, leave and vacation.

Co-workers: Included relationships between worker and his fellow workers.

Attributes of Workers: Included relationships between workers and their fellow workers. to a wide range of occupations.

<u>Adjectives</u>: Those adjectives representative of the dimensions of affect ordinarily measured by the semantic differential technique (e.g., Osgood, Suci, & Tannenbaum, 1957). This included the evaluative (e.g., good-bad), potency (e.g., strong-weak), and activity (e.g., active-passive) dimensions.

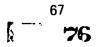
From the literature discussing each of the work categories, a sample of 211 stimulus words was selected by the investigators to reflect each category (see Table 1, p.15). From this total the investigators selected 100 words, considered representative of the ten work categories, for use in the first of the two experiments.

Experiment |

Experiment I attempted to use word association techniques to determine the hierarchical structure of the categories of the work environment and to determine the affective meaning workers assigned to stimulus words representing each of those categories. One hundred work-related stimulus words were presented to 10 automotive mechanics and 10 secretaries in either single-word or sentencestem form. Each subject was asked to consider each word (or sentence-stem) in the context of his job and was given approximately 45 seconds to continuously write single word responses that would best tell what each word (or sentence-stem) meant to him and how he felt toward that aspect of his job.

Associative responses given to each stimulus word/sentence-stem were pooled across workers and occupations (see Appendix A). A Relatedness Coefficient (RC), suggested by Gaskoff and Houston (1963) was calculated between all possible pairs of stimuli. The RC statistic indexes the verbal relation of two stimuli based on both the rank order and the number of shared associative responses. Subsequently, a hierarchical factor analysis was performed on the RC Matrix. The resulting factor structure (see Figure 2, p. 24) proved difficult to interpret. A content analysis of the pooled associative response distribution for each stimulus revealed several reasons for the difficulty in interpretation. First, although the stimuli elicited a wide range of different responses, considered necessary in order to determine the associative meaning of the stimuli, the responses "work" and "job" were given to over 50% of the stimulus words. These responses, "work" and "job," artificially inflated the RC between many pairs of stimuli, which in turn, influenced the factor analytic reduction of the RC Matrix. Second, stimuli were interpreted in a wider context than the work





environment. Their meaning was apparently ambiguous to subjects or the subjects were not able to shield out non-job situations to which the stimuli were also appropriate. Therefore, the factor structure itself reflected something more than the structure of categories within the work environment. Third, the RC statistic was not sensitive to meaning-shifts that occurred when the same response was given to different stimuli. Thus, it only indexed a portion of the shared meaning between stimuli. Moreover, the RC statistic could not reflect the rich and unique meaning of responses given to each work-related stimulus word.

It was concluded that although the word association method could elicit a wide range of responses, reflecting both affective and cognitive processes, the three difficulties mentioned above had to be resolved before a meaningful assessment could be made of the structure of affective or cognitive meaning characteristic of different work environments.

Phrase List Development and Use in Experiment II

Experiment 1 indicated that single word or sentence stem stimuli lacked the specificity to prevent the responses "work" and "job" which were considered artifacts, and did not limit responses to those relevant to the work environment. This confounded the hierarchical factor analysis and prevented a clear content analysis of the responses. In an attempt to reduce the possibility that work-related stimuli would elicit such artifactual associative responses as "work" and "job" and to increase the possibility that responses would be relevant to only the work environment, a phrase form of stimuli was adopted (see Table 5, p. 31) for use in further investigation. The investigators examined the total stimulus word list by work category. Within each work category those single words that were intended to represent important aspects of the work environment were transformed to a concept phrase representative of that aspect. For example, the word "influence" was transformed to the two phrases "my control over work pace" and "my control over work methods." Overall, transforming single-word stimuli into phrase form reduced the number of discrete work categories from ten to five and the number of stimuli from 100 to 40.

Experiment I also indicated that the RC overlap measure could not reflect all of the many different responses given to each stimulus word. This phenomenon combined with the ambiguity of the single-word and sentence-stem stimuli to further confound interpretation of the hierarchical factor analysis. It was concluded further that dimensional analysis of stimulus words, such as the factor analytic solution used in Experiment I, was inadequate because insufficient information was recovered from the raw data. Instead, in future investigations, a dimensional analysis of the response words themselves would be more desirable. A literature review concerning the development of response categories in word association research indicated that dimensional analysis of associative response words was feasible, and a method suggested by Kreitler and Kreitler (1968) was adopted for use in Experiment II.

In Experiment II the 40 work-related phrases were presented to 19 automotive mechanics, 19 secretaries, and 19 computer data processors. Procedures, including instructions, were essentially the same as those used in Experiment I, with the exception that subjects were instructed to write multiple-word responses if they were unable to think of a single word. It was felt that the use of stimu'us phrases instead of single words, followed by a successful dimensional analysis of responses to those phrases, would reveal the pattern of affect and its relation to other more cognitive meanings characteristic of the work environment.





Associative responses given by all 57 subjects were pooled for each of the 40 stimulus phrases. A response was pooled only when it was given in response to a stimulus phrase by at least two subjects. Using a method of judgment suggested by Kreitler and Kreitler (1968), response word categories were developed as a function of the associative responses themselves. Three judges, including the investigators, found that 13 categories would account for 99.87% of all responses. These categories are listed below along with their percent of use (See pp. 37-38 for full category definition, and Tables 7-12 for the categorical distribution of associative responses.).

Table 14

| Response Categories | Percent of Use |
|---|----------------|
| Description or evaluation of the referent | 52.10% |
| Referents' saliency | 10.23 |
| What the referent consists of or includes | 7.46 |
| Referents' quantity or amount | 7.05 |
| Referents' action(s) or potential for action(s) | 5.76 |
| Causes for referents' occurrence/non-occurrence | 5.49 |
| Referents' frequency of occurrence | 5.34 |
| Referents' potency | 1.89 |
| Consequences which result from the referent's existence or from a certain activity it does | 1.60 |
| Referents' function, purpose or role | 1.21 |
| Referents' manner of occurrence | 0.98 |
| Referents' similarity or contrast | 0.61 |
| Referents' contextual allocation | 0.15 |

Response Categories and Their Percent of Use

Content analysis of the pooled, categorized data indicated that few artifactual responses were present (e.g., "work" and "job" rarely occurred) and that subjects did indeed confine their responses to those relevant to the work environment. Following the development of response word categories, the pooled responses were sorted by occupation to facilitate inter- and intra-occupational comparisons. This allowed detailed analysis of occupational similarities and differences in content and structure of meaning. An Affective Dominance Index suggested by Szalay and Lysne (1970) proved to be a sensitive summary statistic which reflected the direction and intensity of the affective responses expressed by each occupational group toward each of the 40 work-related phrases.



Overall, the results of Experiment II indicated that people overwhelmingly associate positive affect with the work environment. This finding was considered as general support for a positively valenced work ethic. This phenomenon brought the negative meaning characteristic of the work environment into relief and provided further insight into the structural relationship between positive and negative valuation. A brief summary of the major occupational comparisons, by work category, follows. Additional findings, especially within each occupation have been discussed in Chapter V.

<u>Job content</u>. Automotive mechanics viewed opportunities to do challenging work and the use of their abilities more positively than did eit! er computer data processors or secretaries. Secretaries felt more self-competence on the job, and were more accepting of the methods used than did either data processors or automotive mechanics. Computer data processors felt that they had more control over their work pace than did secretaries or automotive mechanics.

General need satisfaction. Overall, automotive mechanics saw their jobs as a better source of satisfaction for the social, autonomy, and self-actualization needs than for the security and esteem needs. For secretaries, the security and social aspects of the job were the major sources of need satisfaction. The higher order needs, esteem, autonomy and self-actualization were evidently not adequately met by the secretaries' job structure. Computer data processors generally reported that their occupation satisfied security, social, and autonomy needs; and, to a lesser extent, the esteem and selfactualization needs. Data processors enjoyed a more prestigious occupation and indicated a higher feeling of accomplishment than did either secretaries or automotive mechanics. Both data processors and automotive mechanics were more free to exercise personal judgment in performance of job activities than were secretaries. Automotive mechanics alone stressed money as an important factor of the job. They also shared with data processors a feeling of high prestige on-the-job. Secretaries viewed interaction with their co-workers as more important than did computer data processors or automotive mechanics.

<u>Working conditions</u>. Overall, computer data processors gave fewer negative associative responses than the secretaries, and considerably fewer than automotive mechanics. Data processors considered their working hours and the equipment used more favorably than did secretaries or automotive mechanics. Overtime was quite common and considered necessary by data processors; overtime was less common for secretaries (who viewed it negatively) and for automotive mechanics (who viewed it as financially rewarding).

<u>Supervision</u>. Stimulus phrases within this work category collectively elicited associative responses with the highest positive level of valuations, when compared to other work categories. Data processors and secretaries indicated that interaction with their supervisors was more salient than did automotive mechanics. None of the subjects in the sample considered their supervisors necessary or important in the context of their work environment.

<u>Company and union</u>. Only secretaries indicated a generally positive view of unions. The majority of all subjects did not belong to unions. However, a few subjects in all occupations felt that the handling of grievances was poor.

<u>Compensation</u>. A few subjects from each occupation indicated that pay was adequate. Automotive mechanics and secretaries indicated that promotion is not generally a possibility.





These data empirically reveal multiple aspects or dimensions of affect and they emphasize the need to consider the pattern of those dimensions in any assessment of meaning found in the work environment.

Limitations of the Present Investigation

It is appropriate here to point out certain additional limitations of the study that must be taken into account when considering the results. In an earlier discussion (pp. 6-7) it was noted that the present effort was an attempt to outline a method to assess complex affective variables. It was viewed as a first step toward bridging the gap between awareness of the importance of affective variables in job performance, and establishing affective objectives for use in the classroom. The following additional considerations are appropriate.

The first limitation on the interpretation of the results is concerned with the size and occupational range of the subjects sampled. A deliberate attempt was made to sample diverse occupations. Automotive mechanics were viewed as an occupational group that worked primarily with "things," whereas secretaries worked to a great extent with "people," and computer data processors worked primarily with "ideas" or "data." Nevertheless, these three groups are not necessarily representative of all occupations and the size of the samples of workers necessitate caution in the interpretation of results of the study.

A second limitation of the study is concerned with the judgment procedures used to establish associative response categories. Associative responses were grouped into response categories by only three judges. Although the method itself required full agreement among judges at critical points and the judgment tasks were not considered difficult, the small number of judges did not permit adequate assessment of their judgment ability. The time required to categorize response words is also a factor to be considered. Judges required from 6 to 10 hours each to categorize associative responses which was not considered burdensome. However, the time required to categorize word association data will increase as a function of the number of responses to be categorized. This, in turn, is a function of the total number of stimuli, the time that subjects are allowed to free associate, and the number of subjects in the experiment. Thus, the present method for categorization requires substantial amounts of time, which under some circumstances may be prohibitive.

Finally, it should be noted here that the present study included one unique procedure which would not be repeated in future investigations. The investigators found it difficult to transform each single stimulus word into a representative phrase form of stimulus. It was often necessary to re-examine the literature from which each single stimulus word was selected in order to determine the conceptual area that each phrase was to represent. The single word in isolation often failed to chearly delimit a portion of the work environment. In any future application of the present method which might require new work categories or where new lists of phrases must be derived for categories within a non-work environment, each phrase would be directly derived from literature describing the respective category. The intermediate step of first deriving single words would not be required.



Conclusions

It was concluded that the word association paradigm, using the methods described in Experiment II, was an effective technique to investigate both the content and structure of psychological meaning, especially the affective meaning of the work environment. In the present investigation the technique first elicited word associations to work-relevant phrases and then separated these associations into 13 response categories. These categories provided for a relatively detailed outline and descriptive summary of the subjects' occupational-specific affective structures. In addition, it was possible to draw rich and meaningful comparisons between the three different occupations.

It was also concluded that the method used for dimensional analysis had certain advantages. In the present investigation associative reconservord categories were not <u>a priori</u> categories. Rather, they were a function of the associative responses themselves. Moreover, the meaning, and therefore the category assignment of each response word, was determined in the context of its eliciting stimulus phrase, thereby accounting for any contextual meaning-shift that might occur when the same associative response was given to different stimuli.

Interpretation of the data was not difficult since the meaning of each response was readily derived in the context of each stimulus phrase. This indicated that a high level of expertise should not be required to interpret data collected by use of this methodology. Too, the methodology did not violate certain ethical concerns regarding invasion of privacy since specificity of the phrase-form concepts insured that only affect relevant to a particular environment was identified and assessed, and the subject was fully aware of the purpose of the conceptual phrases used. Also certain phrases used in the present investigation (e.g., "opportunities for self-fulfillment") insured that the workers could indicate the affect associated with their perceptions of opportunities for occupational self-development.

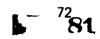
Perhaps the most important conclusion drawn from these exploratory efforts was that the present methodology was a technique with potential application to both the work environment and the classroom. That is, it was a highly flexible methodology. In regard to the work environment, the present list of work-related stimulus phrases was used to reveal common affective and cognitive variables for three different occupational settings: the automotive, secretarial, and computer data processing work environments. Moreover, the present work-related instrument could easily be expanded. Additional categories of words could be included (e.g., phrases concerning <u>Communication</u>) or present categories could be supplemented by additional work-related phrases to facilitate more detailed investigations of meaning in the work environment.

Flexibility is further evident in this method in that it could easily be adapted to the learning environment. The particular stimulus phrases, instructions, and examples given to subjects determine the desired associative response domain. Thus, the career educator, for example, might investigate the affective and related cognitive aspects of the learning situation, including the classroom and related areas of the educational environment, by developing lists of classroom/learning-related phrases representative of the educational environment.

Recommendations

The present methodology can be used in various ways to identify affective variables characteristic of an environmental setting, or subsequently to derive a more refined assessment instrument.





As noted in Chapter I, it cannot be used directly to establish affective objectives. In the final analysis, the career educator or curriculum developer must place empirical knowledge of work-related affect in a coherent theoretical framework that accounts for the positive or negative affect that emerges from person-environment interaction, and he must translate that information into affective learning objectives. The recommendations that follow are therefore primarily concerned with the problem of accurate assessment of affect and related cognition within a particular environmental setting:

٠.

- 1) The word association instrument and procedures described herein would be particularly helpful in systematically identifying the range of affect associated with the work environment. This could aid the educator in understanding what affect-related problems exist in the students potential work environment. The flexibility of this methodology suggests also that educators could easily adapt it to assess affect within the educational environment.
- 2) Since the responses elicited under this format were predominantly valueladen, this technique would be particularly useful in articulating differences between groups separated by, for example, different levels of satisfaction or dissatisfaction with the job or an educational program. This technique would also explicate detailed similarities and differences in affect between groups of students who exhibit successful and unsuccessful academic performance or between groups or workers who are considered satisfactory or unsatisfactory in job performance.
- 3) The present methodology could be used to track, or follow, developmental changes in affect. The word association technique has already been used successfully in tracking cognitive development in the classroom (Johnson, P., 1967). The present technique could be used to periodically assess changes in affect that have been identified previously as relevant throughout a course of instruction. Similarly, changes in affect that might occur between job entry and successful personal and interpersonal adjustment could be followed.
- 4) The clear structural dimensions of affect revealed in the content analysis of each occupation suggest that those dimensions could be used to construct comprehensive questions for determining the pattern of affective variables across each of the occupational groups. This instrument subsequently could be administered to larger, more adequate samples of workers in the three occupations. Results of this effort would more closely approximate a comprehensive assessment of work-related affect.



APPENDICES

•

t

. -



,

٩..

•••

APPENDIX A

- A-1 Experiment I: Word Association Data Collection Instrument, Single Word Format
- A-2 Experiment I: Response Distribution Pooled by Stimulus Word and Frequency

L

A-3 Experiment I: On Single-Word vs. Sentence-Stem Format and the Use of Adjective Stimuli.



..

APPENDIX A-1

•

1

Experiment I: Word Association Data Collection Instrument, Single Word Format.



INSTRUCTIONS FOR USE BY ADMINISTRATORS

Pass out the response booklets and pencils.

Hello, my name is [], and I am from The Center for Vocational Education at The Ohio State University. For those of you not familiar with The Center, it is a group of educational researchers. One of our major functions is the development and refinement of vocational and technical training programs. The procedure which we are administering today is part of a research program. This is a word association procedure and we are testing it for use in the area of curriculum development.

One of the vocational programs we are concerned with is the training of []. This is why we have asked you especially to help us.

The first thing we would like you to do is to fill out the Background Information sheets that are attached to the booklets in front of you. Be assured that all the information requested will be held in confidence and that your name will not be used in any way.

Back ound Information sheets filled out,

If all of you have now finished filling out the Background Information sheets will you please give me your attention and I will now read the general instructions that you will follow in completing this questionnaire. Please stop me any time you have a question.

The following pages contain 105 words that are designed to find out what <u>work</u> means to people, and how they think and <u>feel</u> about their work. This questionnaire is intended to identify the many ways people think about work. It does not evaluate your performance as an employee. The results will be used for research only and, therefore, we trust that you will do your best to provide the necessary information. For each word you are asked to write down as many other words as you can think of in a short period of time.

On each page a key word representing an idea relating to work is printed 15 times. Open your booklets to about the middle page and you can see how this looks. Each repetition is followed by a blank space. You are to write in the blank spaces as many <u>different</u> words that the key word makes you think of. Each response should consist of only one word. Many of the key words are related to work, that is, they refer to work and will always make you think of your job. The word "supervisor" is an example. Other words, "wh as "experience," are not necessarily related to work. However, you are to consider all of the key words as if they were related to your work. That way your response will identify the meaning each key word has in reference to your work situation. Be sure to think back to the key word after each word that you write because the point is to see how many and what other words the key words make you think of.



78 **S**F You will have 45 seconds to write as many words as you can think of which are related to the key word on each page. When a recorded tone sounds, begin writing responses to the key words on the first page. Each time the tone sounds, turn the page and begin writing words to the key word on the next page. Do not turn the page until the tone sounds. You will continue the procedure for 40 minutes and then there will be a stop for a short rest. Write as fast and as clearly as you can, but do not be too concerned about the proper spelling of the words. There are no right or wrong answers. You will have a chance to practice on a few words before we begin.

If you will now turn to the first page of your booklet you can see a completed example of the type of words you will encounter. It shows you the procedure you should follow. The word is "task," and it is repeated 15 times on a single page. I will go over the example with you.

In the spaces provided someone has written different words that came to their mind as they looked at the key word. All of their responses are different; they are single words and the person was presumably thinking about their work as they wrote. Therefore, they are appropriate responses.

Please note the richness of meaning that this person has given the word "task." They have described a task as an assignment; they see a task as work, but as a small part of their job; to them a task requires that they perform in some way; and finally they see a task as easy but boring. Some of these responses describe the key word. Some may indicate the job action implied by the key word. And some responses indicate feelings in relation to the concept identified by the key word.

To continue now, at the bottom of the page, it says that it is not necessary for you to fill in all 15 blanks or to try to write as many different kinds of responses for each key word as the person did to the key word "task." However, you should try to write all those responses that will best tell what the key word means to you in relation to your work situation.

Are there any questions? Before we start, I would like to remind you to always think back to the key word after each word that you write because the point is to see how many and what other kinds of words the key word makes you think of. Also you should try to write all of those responses that will best tell what the key word means to you and how it makes you feel in relation to work.



WORD ASSOCIATION

RESPONSE BOOKLET

The Center for Vocational Education The Ohio State University 1960 Kenny Road Columbus, Ohio 43210



BACKGROUND INFORMATION

| | NAME | | | | | | COE | DE | | | - |
|---|-----------------------|--------------------|--------|----------------|-------------|-----------|----------|-------------|----------|---------|---|
| Receptionist () Stenographer () Legal Secretary () Typist () General Secretary() Medical Secretary () Executive Secretary () Administrative Assistant () Other (Please specify): | | | | | | | | | | ore | |
| Typist () General Secretary() Medical Secretary () Executive Secretary () Administrative Assistant () Other (Please specify): | CHECK YOUR PRESEN | NT JOB TITLE: | | | | | | | | | |
| Executive Secretary () Administrative Assistant () Other (Please specify): | Receptionist (|) | Steno | grapher |) | | L | egal Sec | retary | (|) |
| Other (Please specify): | Typist (|) | Gener | al Secretary (|) | | N | ledical S | ecretary | (|) |
| HOW MANY YEARS HAVE YOU WORKED FULL-TIME AT YOUR PRESENT JOB? HOW MANY TOTAL YEARS HAVE YOU BEEN EMPLOYED FULL-TIME IN THIS OCCUPATION? EDUCATION: 1. High School: Graduated from high school (or equivalent): Yes No 2. Vocational training (check one response for each type of training): Years of Attendance 5 Mone 1 1 2 3 4 More a. Vocational-technical in high school | Executive Secretary | () | | Adı | ninistrativ | e Assista | nt (|) | | | |
| HOW MANY TOTAL YEARS HAVE YOU BEEN EMPLOYED FULL-TIME IN THIS OCCUPATION? EDUCATION: 1. High School: Graduated from high school (or equivalent): Yes No | Other (Please specify |)· | | | | _ | | | _ | | _ |
| for each type of training); Less Than None 5 Than 1 1 2 3 4 More a. Vocational-technical in high school | EDUCATION: | | | | | | | | | _ | - |
| Less Than or Than None 1 1 2 3 4 More a. Vocational-technical in high school | | | iponse | | | Years o | f Attend | ance | | | |
| a. Vocational-technical in high school b. Velistional-technical post-high school c. Junior or community college d. Four-year college in university e. M. itary technical training school f. Business school or business college g. Formal company training program h. Formal trade apprenticeship program i. On the job experience | | | | None | Than | 1 | 2 | 3 | 4 | 0 | r |
| c Junior or community college d. Four-year college | a. Vocational-techni | cal in high schoo | k | | - | | | ·. | | | _ |
| d. Four-year college in unitersity | b, Ve stional-techrif | cal post-high sch | loci | | | | | | | | |
| e. M. itary technical training school f. Business school or business college g. Formal company training program h. Formal trade apprenticeship program i. On the job experience | c Junior or commu | nity college | | | | | | | <u> </u> | | _ |
| f. Business school or business college g. Formal company training program h. Formal trade apprenticeship program i. On the job experience | d. Four-year collage | · un rensity | | | | | | | | | |
| g Formal company training program h Formal trade apprenticeship program i. On the job experience | e. Mtary technical | training school | | | | | | | <u></u> | <u></u> | _ |
| h Formal trade apprenticeship program | f. Business school o | r business collegi | 2 | | | | | | | | |
| I. On the job experience | g Formal company | training program | 7 | | | | | | <u> </u> | | |
| | h Formal trade app | renticeship prog | ram | | | - | | | | | |
| j Other (specify) | i. On the job experi | ence | | | | | | | | | _ |
| | j Other (specify) | | | | ~~~~~ | | | | | | |

3. After marking all of the above in question 2, also please circle one of the letters below indicating the one training situation where you learned most of your job skills (other than on the job experience).

a b c d e f g h i j

Thank you for your cooperation in completing this questionnaire,



.89

BACKGROUND INFORMATION

| IAME | | - | | | | С | ODE | | |
|---|---|-------------|----------|--------------|--------|---------------|--------------|--------------|----------------|
| CHECK YOUR AGE Less the (IN YEARS) (| nan 21 21-2) (| | | 31-35) | | i-40) | 41-45 () | 46 or n (| |
| HECK YOUR PRESENT JOB T | ITLE: | | | | | | | | |
| Data Converting Operator | () | Program | ner | (|) | System Ana | s & Proced | ures | () |
| Computer Console Creator | () | Lead Pro | grammer | (|) | | | | · , |
| Junior Programmer | () | Senior Pr | ogramme | r (|) | System | s Programn | ner | () |
| Other (please specify) | | | | | _ | | | | |
| OW MANY YEARS HAVE YO | | | | | | | | | |
| | | | | | | | | | |
| OW MANY TOTAL YEARS HA | AVE YOU BE | EN EMPL | OYED FI | ULL-TI | IME IN | THIS O | CCUPATIO | ON? | |
| DUCATION. | | | | | | | | | |
| | | | | | | | | | |
| 1. High School: Graduated fro | om high schoo | ol (or equi | valent): | Yes | | | No | | |
| | | ol (or equi | valent): | Yes_ | | of Atte | | | _ |
| High School: Graduated free Vocational training (check of for each type of training). | | ol (or equi | | Yes_ Less | | | | | |
| 2. Vocational training (check of | | . | | | | | ndance | 4 | 5 or Mor |
| 2. Vocational training (check of | Dne response | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| 2. Vocational training (check of for each type of training) | one response o school | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| 2. Vocational training (check of for each type of training). a. Vocational-technical in high | one response o school igh school | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for each type of training). a. Vocational-technical in high b. Vocational-technical post-hic. Junior or community college | one response n school igh school je | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for each type of training). a. Vocational-technical in high b. Vocational-technical post-hic. Junior or community colleged. Four-year college of universed. | one response n school igh school ge sity | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for each type of training). a. Vocational-technical in high b. Vocational-technical post-hic. Junior or community college | one response n school igh school je sity chool | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for each type of training). a. Vocational-technical in high b. Vocational-technical post-hild. c. Junior or community colleged. Four-year college or universe. Military technical training set f. Business school or business. | one response o school igh school je sity chool college | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for each type of training). a. Vocational-technical in high b. Vocational-technical post-hild. c. Junior or community colleged. Four-year college or universe. Military technical training set | one response o school igh school je sity chool college rogram | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for <u>each</u> type of training). a. Vocational-technical in high b. Vocational-technical post-hild. c. Junior or community colleged. Four-year college or universe. Military technical training set. Business school or business. g. Formal company training process. | one response o school igh school je sity chool college rogram | . | I | Less Than | Years | of Atte | ndance | 4 | or |
| Vocational training (check of for <u>each</u> type of training). a. Vocational-technical in high b. Vocational-technical post-hild. c. Junior or community colleged. Four-year college or universe. Military technical training set. Business school or businesset. g. Formal company training period. | one response a school igh school je sity chool college rogram o program | . | I | Less Than | Years | of Atte | ndance | 4 | or |

a b c d e f **g** h i j

•,

Thank you for your cooperation in completing this questionnaire



- -

BACKGROUND INFORMATION

| NAME | | <u> </u> | _ | | | COE | DE | | |
|---|---|---------------------------|----------------------|--|------------|------------|-----------|-----|---------|
| CHECK YOUR AGE Les (IN YEARS) | s than 21 () | | | | 36-40 (|) 4) (| 1-45) | | Ore |
| CHECK YOUR PRESENT JO | B TITLE: | | | | | | | | |
| Automotive Mechanic App | rentice (|) | | Service | Advisor o | r Writer | (|) | |
| Automotive Mechanic | (|) | | Job Spe | lialist | | (|) | |
| Other (please specify) | | | | | | | | | |
| HOW MANY YEARS HAVE | YOU WOF | | L-TIME AT | YOUR PR | ESENT J | 0в? | | | |
| | | | | | | | | | |
| HOW MANY TOTAL YEARS | HAVEY | OO BEEN I | EMPLUYEL | FULLIN | | 115 000 | UPATI | UN? | |
| | | | | | | | | | |
| | | | | | | | | | |
| EDUCATION [.] 1. High School Graduated | d from hig | jh school (o | r equivalent | :). Yes_ | | N | lo | | _ |
| 2. Vocational training (che | ck one res | | r equivalent | () [.] Yes | Years of | _ | | | _ |
| 1. High School Graduated | ck one res | | | 1) ⁻ Yes Less Than 1 | | Attend | ance | 4 | 5 or |
| 1. High School Graduated 2. Vocational training (che | ck one res j)· | sponse | r equivalent None | Less Than | Years of | _ | | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training | ck one res)' | sponse Di | | Less Than | Years of | Attend | ance | | 5 |
| High School Graduated Vocational training (che for <u>each</u> type of training a. Vocational-technical in | ck one res j)- high schoo st-high sch | sponse Di | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical per | ck one res j) high schoo st-high sch | sponse Di | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical per Junior or community co | ck one res)) high schoo st-high sch vilege versity | sponse Di | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical por Junior or community co d Four year college or unit | ck one res)- high schoo st-high sch versity ng school | sponse bl | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical in Vocational-technical point Junior or community cond Four year college or unit Military technical training | ck one res)- high schoo st-high sch illege versity ng school ess college | sponse ol nool | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical in Vocational-technical point Junior or community co d. Four year college or unit Military technical training Business school or busing | ck one res high school st-high school versity ng school ess college ig program | sponse ol nool n | | Less Than | Years of | Attend | ance | | 5 or |
| High School Graduated Vocational training (che for <u>each</u> type of training Vocational-technical in Vocational-technical in Vocational-technical period Junior or community co Four year college or unit Military technical training Business school or busing Formal company training | ck one res high school st-high sch illege versity ng school ess college ig program | sponse ol nool n | | Less Than | Years of | Attend | ance | | 5 or |

ι.

3 After marking all of the above in question 2, also please circle one of the letters below indicating the one training situation where you learned most of your job skills (other than on the job experience)

a b c d e f g h i j

Thank you for your cooperation in completing this question paire.



84

DIRECTIONS

In the spaces provided someone has written different words that came to their mind as they looked at the key word. All of their responses are different; they are single words, and they were presumably thinking about their work as they wrote. Therefore, they are appropriate responses.

| task | work |
|------|---------------------------------------|
| task | lasy |
| task | assignment |
| task | horing Dur all. |
| | Amell |
| task | performance |
| | / / · |
| task | |
| | |
| | |
| | |
| | |
| task | |
| task | |
| task | · · · · · · · · · · · · · · · · · · · |

It is not necessary for you to fill in all 15 blanks or to try to write as many different kinds of responses for each key word as the person did to the key word "task." However, you should try to write all those responses that will best tell what the key word means to you in relation to your work situation.



85

Į.

SAMPLE SHEET

| absenteeism | |
|--------------|--|
| | |
| | |
| | |
| | |
| absenteeism | |
| absenteeism | |
| absenteeism | |
| absenteeis.m | |
| absenteeism | |





SAMPLE SHEET

| assignment | |
|------------|---------------------------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| assignment | |
| | |
| | · · · · · · · · · · · · · · · · · · · |
| assignment | |



APPENDIX A-2

~

Ł

Experiment I: Pooled Response Distribution, by Stimulus Word and Frequency



٩.

• ---

| まれれるよう (1) (1) (1) (1) (1) (1) (1) (1) | 100000 UN 2000000000000000000000000000000 | 70220 20 20 20 20 20 20 20 20 20 20 20 20 |
|---|--|---|
| giving coworker supervisor together willingness people coworker friend help help helper willing assistance | friendly harmony partner performance time customer friend buyer complaint in tcresting right work fair job | needed person service necessary relation product decision decision helpful idea good |
| รียุมุญญัญญี่ สีมี สีมี สีมุญญัญ สีม | よこうこう EE のらみみようでいうこう | ии В С С С С С С С С С С С С С С С С С С |
| order rigid necessary job fair good confidence good work helpful sure trust need performance at | trusting secret ability job tool contribution help job give giving work good needed given | aid self <u>cooperation</u> help necessary needed helpful work job good |
| на Шомососососа Секососососа Секососососа Секососососа Секосососососа Секососососососа Секососососососососа Секососососососососососососососососососос | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 10040000 10040000 1007000000000000000000 |
| boredom boredom easy bad unhappy repetition iob idle work cleanliness gcod appearance work necessary | neatness job tool needed clean clean clean self tudy tudy tudy coffeebreak coffeebreak rest | releaxing time releax good short break leisure compaiv policy compainy policy rule OK |
| н Н Н Н Н Н С 4 4 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | aadaaaaaaa uu uu uu uu uu aadaaaaaaa uu | i ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ ๙ |
| absenteetsm absenteetsm bad sickness terrible sick unfortunate assignment job work task easy duty time | order do given responsibility good success borng challenge fun ability perform bor. <u>.is</u> bonus pay extra | work gift good raise deserved happy delightful christmas earned use appreciation |

ERIC Full Taxt Provided by ERIC 89 Q

1 **F** ---

⁸⁹ 96

| ~~~ | S S | က်က် | <u> </u> | 101 | ~ ~ | , r | | 5, r. | 5 4 | с. | ~ | | ni r | <i>i</i> c | i ni | 5 | 6 | ~ | ~ ~ | , v | | | ۶ <u>.</u> | i ru | с, | ຕ່ | ni r | vi r | ŃŌ | 1 01 | FREQ | 8 | ۲. | ີທີ່ເ | vi • | र्ष सं |
|--|---|------------------|-----------------|-------------------|-----------|-------------|--------------|---------------------------|------------|------------------|-------------|------------|------------|-------------------|---------------|-------------------|---------|-----------|-------------|---------------|----------------|----------------|---------------------|----------------|---------------|----------------|--------------|-------------|------------------|-----------------|---------------|---------------|------------|-----------|-----------|-----------------------|
| job ability performance | <u>initiative</u> initiative work | job ability | learn daoire | drive | trying | | intelligence | inteiligence knowledoe | ability | helpful | performance | work | experience | training skilt | thought | poot | know | sense | supervisor | time | : | interterance . | interrerence bad | supervisor | job | time | boss | prootem | delav | ability | iob knowledoe | iob knowledge | experience | skill | ability | necessary training |
| ຕໍ່ຕໍ່ດ່າດ | 2. FREQ | 8 ë | ۍ م | າ ຕ່ | 610 | ~ ~ | . | 2 | 5. | 5 | FREO | Ŕ | ຕໍ່ ເ | n' c | n e | ; ei | i ni | 5 | 5 | FREQ | ึ ่ | ((| ri c | | i ~i | 2 | ~ ~ | 2. | FREQ | 8 | ຕ່ ເ | | i ni | 5 | 5 | <i>N</i> N |
| pay time necessary | ability <u>fatique</u> | fatigue tired | work | boring | tiredness | sleep | berformance | rundown | doi | task | freedcm | freedom | necessary | Work | ge od time | areat | fun | procedure | need | grievance | grievance | union | work | gripe Dav | su Prvision | Adde i un | time | speakout | <u>influence</u> | influence | friend | uerpror | supervisor | help | bad | coworker knowledge |
| 4 m m m | i ni ni n | i ni n | idi | 2 | iri | , , | FREQ | S. | ب ب | 4 [.] 4 | , , | <i>с</i> , | ų | ب | ຕ່ ເ | | 10 | í | 2. | 2. | FREC | 29. | 4 | 4 (| ň 0 | ici | 5 | 2. | ~ 0 | N (| i ci | FRFO | 2 | ý o | 4 | 4 |
| good heloful needed | performance typewriter | iob tield | fun | repart ability | working | well | experience | rxpericitce | helpful | necessary | training | knowledge | Job | skill | gc od | work schooling | needed | efficient | performance | understanding | failure | failure | bad | loss | jou unable | saddening | unf hrtunate | time | try | undependable | self | fairness | fairnec | equal | job | poof |
| FREO 2.2.2 | 2. 2. FREQ | Q G | တ် | ก่ ถง | 1 | ci c | vr | i ~i | ~ | 5P20 | 20. | ഹ | 4 | n o | ni n | <i>.</i> 1 | i ~i | . | 5 | <i>ы</i> о | | FREO | 8'' | ~ < | i n | ri | ~ ; | ci (| ~ ~ | <i>i</i> c | ini | . | FREQ | Ŕ | ம் | ഗ് |
| d <u>ecisicn</u> (cont'd) easy supervision | wrong strong discipline | discipline | boog | behavior | hard | do | hose | fair | helpful | dismissal | dismissal | bad | fired | job | tiring | work | failure | discharge | unnecessary | yuing | tinal | duties | duties | job time | work | responsibility | task | repair | many | nerp neederi | ciean | important | equipment | equipment | necessary | tool |

ŝ

ERIC FullTaxt Provided by ERIC

€

ŧ~

90

•

91

• --

| 20. 20. 20. | 1- 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | н П С 4 п п п п п л л л л л л л л л л л л л С | FREO 20. 3.3.2.7. 2.3.3.3.2.2. 2.3.3.3.2.2.2. |
|---|--|---|--|
| helpful bad inefficient learn <u>reputation</u> reputation | good bad character work performance quality known personality honest unchanging | retirement retirement fun rest pension earned relaxation age sixty-five security money old benefit leisure plaasure pleasure future year | <u>satisfaction</u> satisfaction job work ability pride self |
| 00000000000000000000000000000000000000 | и 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | で ま で で で で で で で で で で で で で | 5 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| knowing pride remember know see performance | job enjoyment type learn relaxation break rest vacation necessary | good lunch trred helpful quitting time easy pob home trepetition boring dull work necessary repeat good good monotonous | over tıring <u>reprimand</u> good discipline |
| 5 8 0. 20 | 14 4 m m m n n n n n n n | หนื อายัยนุรุยุยุยุยุยุยุยุยุยุยุยุยุยุยุยุยุยุย | is a a construction of the |
| helpful quality <u>production</u> work quality | performance job speed necessary ability rate completion finish good time | amount money fast promotion money good earned desired important pay konsibility work deserved great progress pride | all recognition ability good acknowledgement |
| FREO 21. 24. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. | HEO NNNNN B | 8 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ້ ຕໍ ຕໍ ຕໍ ຕໍ ຕໍ ດັ |
| <u>Personality</u> personality good friend helpful job people | performance character help worker well deadline easter cooperation | praise helpful good work reward deserved necessary improvement necessary brased brased unfair irritable unnecessary bad pride pride | work job good ability needed important performar.ce |



· .-

| ก่ก่ก | FREO 20. | 4 ಲ್ಲ | ~ ~ ~ | งง่ง | ~~~ | FREO | រ៉ូលំសំ | | ່າ ເຊ ເຊ | ~ ~ ~ | 1000 | i n i ni | FREO 20. 7. | ທີ່ທີ່ຕໍ່ດັ່ | Ņ |
|---|---|----------------------------------|--------------------------------|---|--|--------------------------------|----------------------|------------------------|----------------------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|--|----------------------------------|
| experienced car special | <u>status</u> status position | work experience knowledae | time pr.de power | important earned place | hıgh fong ability | success | job monev | work | fulfillment pride | good accomplish | rewarding ability happy | time reward | suggestion suggestion helpful | heip idea usafui needed | unnecessary |
| ก่ก่ | ର୍ଭ ର୍ଭ ର୍ଭ | ~ ~ | FREO 20. | | ಕ ದ ದ ದ | ણ નં ન | <i>i</i> 0 0 | i ~i ~ | i ~ ~ | 6 6 1 | FR:E0 | ಲ್ಲ ಲ್ಲ ಲ್ಲ | N N N N | બં બં બં બં | N N |
| sick earned illness | beneficial off advantage benefit | tıme necessary | skill skill baowlodco | job necessary work | typing ability talent | experience learned trade | helptul deve oped | performance | accurate useful | important ⁺ask | specialist specialist | job research needed | work motor brake necessarv | skilled knowledgeabte knowledge field | interesting trained |
| FREO 20. | મું છું છું છું છું | , v v v | 5 5 5 | 200 00 00 00 | ก่ก่ก่ | ังง | 2, | S. | 7. 6. | નં ભં ભ | ; v, v, v, | બં બં બં | ~~~ | 20. 20. | ને તે તે છે |
| self-fulfillment self-fulfillment | pride good goal | preasure peace achievement | task neat | seif-reliance seif-reliance ability | dependable good job knowledge | experience needed | performance | seniority seniority | experience time | age union knowledde | security earned work | length job status | skill supervisor ability | sick pay sick pay | good needed noney leave |
| FREO | 2. FREQ | 0 2 2 7 7 7 7 | | ด่ด่ด่ | ~~~ | FREO 20. | 5. 5 | 4 ¥ | က်က် | ~ ~ ~ | すいい | ZO. 20 | i ต์ ต่ ณ่ | ~ ~ ~ ~ | ~~~~ |
| <u>satisfaction</u> (cont'd) efficient | quality schedule | schedule time work | lıst routine performance | rıgıd daily Job | timely necessary helpful | security security | job money | work family | love ability | assurance pay | friend knowledge | self-expression self-expression | work helpful idea | important necessary freedom time | open write stifled |



| too long | job | boring | | | April 1 | BUILID | | work pace | work pace | slow | fast | Pure v | Leno, | sheen | | eme . | doį | steady | efficient | clean | Cuality | hectic | hitry | A | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|-----------|------------|-----|---------|---------------|----------|---------------|-----------|-------------|-------------|---------|-------------|---------|---------|-------------|------|-------------|------------|------------|---------|-----------|-------------|---------|---------|------|---------|----------------|------------|---------------|--------------------|---------|------------|---------|-----------|----------|----------|------|---------|-----------|--------|-------|----------|---------------|----------|---------------|----------|-------|---------------|--------|
| 5 | ~ | 2 | i c | i c | vi (| N C | . | 2 | ~ | : | FREQ | 8 | j u | ; - | ÷ c | י י | ri (| г . | 2. | 2. | 2 | 5 | i | i | ; c | i (| vic | i. | 0202 | | 8 | <u></u> | 4. | 2. | 2. | 2. | 5 | 2. | 2 | 5 | | 5 | i | FREO | | Ŕ | ، م | 4. | ų | |
| holiday | earned | hobby | oreat | | | ABri | heip | work | leave | | variety | variety | interection | fin | | | aoí | work | desirable | difference | needed | different | performance | tack | heloful | | Poutine | Anina | | SCALIBILITY A | willingness | work | helpful | learn | do | helping | able | use | perform | agreeable | help | qoi | | working hours | | working hours | long | | eight to five | |
| Ś | ທ່ | ഗ് | 4 | | ÷ • | đ d | | m . | ຕ່ | ~i ~ | 5 | ~ | ~ | 2 | i n | ic | i c | i c | . . | Z . | | FREQ | ę | . 4 | f cr | ; c | າ ຕ | י ני | i c | vi r | v i (| via | . . | 2. | | FREG | ଟ୍ଟ | 7. | ö | 4 | 4 | e. | i r | ೆ ಣ | | i r | າ ຕ | i r | 'n | |
| helpful | schrol | knowledae | needed | | | | loo | usefui | muney | program | desire | skilt | performance | teacher | ability | heneficial | | | required | Tun | | union | union | helnful | ioh | 1:50 | ones | group Ishor | | security | powertui ofribo | strike | management | Denerit | | vacation | vacation | rest | fun | trip | travel | relax | Decesary | needed | rieacure | time | | break | | |
| FREC | 8 | | . u | ¢, | r, | 5 | 2. | 5 | | FREQ | 8 | ş r | ž o | | 4 | 2, | 2. | 5 | 2. | 1 | ic | ir | ic | via | ۲. | | FREQ | S. | 4. | ų | ų | L | i 6 | | i 0 | i 0 | i ~ | i | :. | ; c | ic | 1 | | | 8. | Ö | ъ. | ഗ് | 5. | ດ |
| supervision | supervisor | base | | | needed | poob | bad | understanding | , | temperature | temperature | | | coid | heat | comtortable | room | performance | comfort | work | heated | | | | alr | | tension | tension | pressure | nervousness | people | work | problem | tired | irritable | time | rish | hose | ability | Curality. | | | | Buluar | training | necessary | learning | learn | helpful | school |



94

- 101

APPENDIX A-3

Experiment I: On Single-Word vs. Sentence-Stem Format and the Use of Adjective Stimuli



Experiment I: On Single-Word vs. Sentence-Stem Format and the Use of Adjective Stimu!

Problem

In addition to the primary research questions posed for these investigations, certain methodological questions were investigated concerning the effects of different formats of stimulus presentation and of stimuli consisting of different parts of speech.

Stimulus Format

The stimulus format used in a word association task has been found to influence, or restrict, the semantic level of response. For example, Nunnally and his associates (Nunnally, Flaugher & Hodges, 1963; Nunnally & Hodges, 1965) indicated that the format of the word association instrument itself will alter the semantic range of responses. Nunnally reported that a sentence-completion format induced subjects to give a high percentage of certain paradigmatic responses; for example, those that are descriptive. This suggests that a sentence-completion format will elicit a higher percentage of affective responses when compared with responses elicited by the more traditional singleword stimulus. However, Nunnally used only the sentence-completion format and did not, therefore, make the comparison. In the present investigation, both single-word and sentence-completion format, when compared to the single-word format, would elicit responses judged higher in affective content.

Adjective Stimuli

In Chapter III of this document it was assumed that the instructions given to subjects would establish a work-related context or "set." Given the assumption that each adjective stimulus would elicit responses which represent different physical and abstract aspects of the work environment, then a relatively easy match could be made between level of affect (as defined by the adjective stimulus) and aspects of the work environment (as defined by associative responses). Subsequently, such a match could be compared with responses given to the noun form of each stimulus to determine which form best outlines the affective and other psychological meaning characteristic of the work environment.

Method

Data was collected using the material and procedures described in Chapter III. Data analyses appropriate to test the hypothesis concerning the format of the stimuli and to determine the



efficiency of adjective stimuli to elicit associative responses that name aspects of the work environment are reported below along with the results of those analyses.

Results

Affective Level of Responses

To determine which format elicited responses with the highest level of affective content, the following analyses were completed. Subjects' responses were pooled across occupations for the 10 subjects, and a random sample of 14 sentence-stems (and their respective responses) were selected along with the 14 single-word equivalents (and their respective responses). Fourteen judges then rated each of the pooled responses in the context of the appropriate stimulus word or sentence-stem. Ratings were made on a nine-interval, "extremely unfavorable" to "extremely favorable," scale. Each judge then received an average score for his rating of all responses given to all sentence-stems. Identical interrater reliability scores (each score adjusted for mean differences) of .93 were obtained for judges or. both the single-word and the sentence-stem formats.

A mean deviation score (using the fifth interval of the nine interval scale as a neutral point) was also computed for each judge's ratings and a repeated-measures analysis of variance was performed. The results were marginally significant (p < .06) and a subsequent t-test for related-measures was significant (p < .05). It was tentatively concluded that a sentence-stem format could be expected to elicit responses judged higher in affective content when compared to responses given to single-word stimuli.

Adjective Stimuli

As indicated in Chapter III, the assumption that instructions to subjects would establish a workrelated set were supported. In Experiment I, more than 50% of the stimulus words elicited the responses "work" or "job." Therefore, it was deemed appropriate to examine the hypothesis that stimuli in the adjective form would elicit a significant proportion of responses in the noun form, which would represent aspects of the work environment. If true, this in turn would facilitate an affect-environmental object match between stimulus word and associative response that would be meaningful, especially when the subjects sampled were representative of workers in a particular occupation. The following analyses were completed.

First, the pooled responses given by subjects to the 16 adjectives in the single-word format were compared to the pooled responses given to 16 randomly selected noun stimuli from the remaining 84 stimuli in the single-word format. Two judges determined (with 100% agreement required) the proportion of responses that represented aspects of the work environment. Judges were told to view the stimulus words within each of the seven work categories as representative examples of aspects of the work environment and to judge the subjects' responses in that context. The percentage of work-related responses averaged 12% for the 16 adjective stimuli and 35% for the 16 noun stimuli. A test for difference between two proportions indicated that a significantly higher proportion of work-related responses were given to the noun stimuli (n. <.01).



The responses to the stimulus word "good" that were judged to be work-related are presented below. Almost all responses to "good" could be classified as generally asirable aspects of any work

| Good | f |
|-----------|---|
| work | 4 |
| job | 3 |
| рау | 2 |
| tool | 2 |
| ability | 2 |
| training | 2 |
| lighting | 2 |
| benefit | 1 |
| security | 1 |
| promotion | 1 |
| rating | 1 |
| boss | 1 |
| ring | 1 |
| raise | 1 |
| task | 1 |
| knowledge | 1 |
| effective | 1 |
| efficient | 1 |

RESPONSE DISTRIBUTION FOR STIMULUS WORD "GOOD"

environment and it was difficult to infer the attitude of the subjects sampled toward aspects of <u>their</u> work environment. Also, the psychological meaning inherent in the distribution was very narrow and a function of the stimulus word itself. The adjective stimulus had served simply to classify appropriate aspects of the environment under the category "good." Therefore, while an affect-environmental match may be possible, the range of affective psychological meaning that could be assigned to the associative responses representing aspects of the work environment was limited to the affective dimensions found in adjectives, adverbs, and, perhaps, worker attributes.

Osgood (1969) indicated that there are probably only three (evaluation, potency and activity) affective dimensions of meaning within adjectives, adverbs and other words which serve to modify and describe stimulus objects. Futhermore, Osgood, Suci and Tannenbaum (1957) have shown that the semantic differential technique is a well-established and more rigorous technique than has been developed in the present study for using modifiers to index affective dimensions of meaning. Finally, the responses "work" and "job," a described in Chapter III, are considered ambiguous, especially so in the present format.

The adjective form of the stimuli elicited significantly fewer work-related recponses, functioned to sharply restrict the word association paradigm to an investigation of the affective dimensions of



meanings (an endeavor best accomplished by the semantic differential technique), and, in the present context, elicited work-related responses that were artifacts of the response set.

Summary

Briefly, the sentence-stem format was found to elicit responses judged higher in affect when compared to the single-word format. Also, the noun form of the stimuli was judged to be more appropriate for the investigation of psychological meaning than the adjective form.



•2

APPENDIX B

- B-1 Experiment II: Word Association Data Collection Instrument, Stimulus Phrase Format
- B-2 Experiment II: Response Distributions Pooled by Stimulus Phrase and Frequency
- B-3 Experiment II: Automotive Mechanics' Response Distribution, by Stimulus Phrase and Frequency
- B-4 Experiment II: Computer Data Processors' Response Distribution, by Stimulus Phrase and Frequency
- 8-5 Experiment II: Secretaries' Response Distribution, by Stimulus Phrase and Frequency

э.



APPENDIX B-1

Experiment II: Word Association Data Collection Instrument, Stimulus Phrase Format



 $\left(\right)$

INSTRUCTIONS FOR USE BY ADMINISTRATORS

Pass out the response booklets and pencils.

Hello, my name is [], and I am from The Center for Vocational Education at The Ohio State University. In case you don't know, it is a group of educational researchers. One of our major functions is the development and refinment of vocational and technical training programs. You will be participating today in part of one of our research programs.

One of the vocational programs we are concerned with is the training of []. This is why we have asked you especially to help us.

The first thing we would like you to do is to fill out the Background Information sheets that are attached to the booklets in front of you. We are only interested in group results, not those of any individual. Be assured that all the information requested will be held in confidence and that your name will not be used in any way.

Background Information sheets filled out.

Is anyone still filling out a Background Information sheet? Your booklets contain several different tasks. Now I'll read the general instructions that you are to follow in completing the first task. Feel free to stop me any time you have a question.

The following pages contain 40 different concepts that are designed to find out what work means to people, and how they think and feel about their work. This questionnaire is intended to identify the <u>many ways people think about work</u>. It does not evaluate your performance as an employee. The results will be used at the OSU Center for Vocational Education for research purpose only. Therefore, we hope that you will do your very best to provide the information we need. For each concept you are asked to write down as many other words as you can think of in a short period of time.

On each page a key concept representing an idea relating to work is printed 15 times. Open your booklets to about Pages 5 or 6, and you can see how this looks. Each repetition is followed by a blank space. You are to write in the blank spaces as many <u>different</u> wurds that the key concept makes you think of. Each response should consist of <u>only one word</u>. Be sure to think back to the key concept after each word that you write because the point is to see now many and what other words the key concept makes you think of.

You will have 35 seconds to write as many words as you can think of which are related to the key concept on each page. When a recorded tone sounds, begin writing responses to the key words



on the first page. Each time the tone sounds turn the page and begin writing words to the key word on the next page. Do not turn the page until the tone sounds. You will follow this procedure for 25 minutes and then there will be a stop for a short rest. Write as fast and as clearly as you can, but not be too concerned about the proper spelling of the words. There are not right or wrong answers. You will have a chance to practice on a few words before we begin.

If you will now turn to the first page of your booklet, you can see a completed example of the type of words you will encounter. It shows you the procedure you should follow. The concept is "job knowledge," and it is repeated 15 times on a single page.

You can see that in the spaces provided, someone has written different words that came to their mind as they looked at the key concept. All of their responses are different and they are single words. Therefore, they are appropriate responses.

Please note the richness of meaning that this person has given the concept "job knowledge." They indicated that it is related to experience, skill and ability, that it is necessary; that it involves training, that it is helpful and related to performance. Some of these responses describe the key concept. Some may indicate the job action implied by the key concept. And some responses indicate feelings in relation to the concept.

Note that, at the bottom of the page, it says that it is not necessary for you to fill in all 15 blanks or to try to write as many different kinds of responses for each concept as you see in the example. However, you should try to write all of the responses that will best tell what the key concept means to you in relation to your work situation.

Are there any questions? Before we start, I would like to remind you to think back to the key concept after each word you write, because the point is to see <u>how many and what other kinds of</u> words the key concept makes you think of.



WORD ASSOCIATION

RESPONSE BOOKLET

The Center for Vocational Education The Ohio State University 1960 Kenny Road Columbus, Ohio 43210



111

~

BACKGROUND INFORMATION

| NAME | | | (| CODE | | |
|--|-----------------|--------------|--------------|--------------|----------------|------------|
| CHECK YOUR AGE Less than 21 21-25 (IN YEARS) () () | 26-30 () | 31-35 () | 36-40 () | 41-45 () | 46 or m () | |
| CHECK YOUR PRESENT JOB TITLE: | | | | | | |
| Receptionist () Steno | grapher (|) | | Legal Sec | cretary | () |
| Typist () Gener | ral Secretary (|) | | Medical S | Secretary | () |
| Executive Secretary () | Adm | nistrative | e Assistant | () | | |
| Other (please specify): | | | | | | |
| HOW MANY YEARS HAVE YOU WORKED FUL HOW MANY TOTAL YEARS HAVE YOU BEEN | | | | | | |
| EDUCATION: | | | | | | |
| 1. High School: Graduated from high school (c | | | | • | | |
| 2. Vocational training (check one response | or equivalent): | Yes_ | | | | - |
| for each type of training); | I | Less | Years of A | Attendance | | 5 |
| | None | Than 1 | 1 | 2 3 | 4 | or More |
| a. Vocational technical in high school | | | | | | |
| b, Vocational-technical post-high school | | | | | | |
| c Junior or community college | | | | <u> </u> | | |
| d. Four-year college or university | | | | | | |
| | | | | | | |
| e. Military technical training school | | | | | | |
| e. Military technical training school f. Business school or business college | | | | | | |
| | | | | | | |
| f. Business school or business college | | | | | | |
| f. Business school or business college g. Formal company training program | | | | | | |
| f. Business school or business college g. Formal company training program h. Formal trade apprenticeship program | | | | | | |

3. After marking all of the above in question 2, also please circle one of the letters below indicating the one training situation where you learned most of your job skills (other than on the job experience).

a b c de f g h i j

Thank you for your cooperation in completing this questionnaire,



•

BACKGROUND INFORMATION

| NAME | | | | | | | COD | E | | | | | |
|--|---|---------------------------|----------------|------------------|------|-----------|--------------|-----------|--------|------------|------------|-----------------|---|
| CHECK YOUR AGE Less tha (IN YEARS): (| | 21-25 () | 26-30 () | 31-3 (| | 36-4 (| - | 41-4 (| | 46 or (| r moi) | re | |
| CHECK YOUR PRESENT JOB TI | TLE: | | | | | | | | | | | | |
| Data Converting Operator (|) | Progra | immer | (|) | System | ns & Pr | ocedu | ures / | Analys | t | (|) |
| Computer Console Operator (|) | Lead F | Programmer | (|) | System | is Prog | ramm | er | | | (|) |
| Junior Programmer (|) | Senior | Programmer | (|) | | | | | | | | |
| Other (please specify): | | | | | | _ | | <u> </u> | | | | | |
| | | | | ULL | -TIN | | HIS OC | CCUP | ATIO | יאכ | | | |
| EDUCATION. | | | | | | | | | | | | | |
| EDUCATION. 1. High School: Graduated from | m high | school (o | | ٢ | es_ | | f Atte | _ | | | | | |
| EDUCATION. | m high | school (o | | Y Less Tha | | Years o | f Atter 2 | ndanc | | 4 | | 5 or More | |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check o | m high ne resp | school (o oonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | - |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check of for each type of training): | m high ne resp school | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| EDUCATION. 1. High School¹ Graduated from 2. Vocational training (check or for each type of training): a. Vocational-technical in high | m high ne resp school jh scho | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | - |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check or for each type of training): a. Vocational-technical in high b. Vocational-technical post-high | m high ne resp school yh scho | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check on for each type of training): a. Vocational-technical in high b. Vocational-technical post-high c Junior or community college | m high ne resp school gh scho | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check on for each type of training): a. Vocational-technical in high b. Vocational-technical post-high c. Junior or community college d. Four-year college or university | m high ne resp school jh scho ty hool | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check on for each type of training): a. Vocational-technical in high b. Vocational-technical post-high c. Junior or community college d. Four-year college or universitie. Military technical training scl | m high ne resp school jh scho ty hool oilege | school (o vonse | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| High School: Graduated from Vocational training (check on for each type of training): a. Vocational-technical in high b. Vocational-technical post-high c. Junior or community college d. Four-year college or universitie. Military technical training scl f. Business school or business con | m high ne resp school jh scho ty hool oilege ogram | school (o oonse ool | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |
| EDUCATION. 1. High School: Graduated from 2. Vocational training (check or for each type of training): a. Vocational-technical in high b. Vocational-technical post-high c. Junior or community college d. Four-year college or universitie. Military technical training scl f. Business school or business co g. Formal company training pro- | m high ne resp school jh scho ty hool oilege ogram | school (o oonse ool | r equivalent); | Less Tha | | Years o | | ndanc | e | | | 5 or | |

3. After marking all of the above in question 2, also please circle one of the letters below indicating the one training situation where you learned most of your job skills (other than on the job experience).

a b c d e f g h i j

Thank you for your cooperation in completing this questionnaire,



BACKGROUND INFORMATION

| NAME | | | | | | CODE | | | |
|---|-------|--------|---------------|-------------------|-----------|----------|---------|----------|-----------------|
| CHECK YOUR AGE Less than 21 | 21- | 25 | 26-30 | 31-35 | 36.4 | 0 | 41-45 | 46 or m | 019 |
| (IN YEARS): () | | | () | () | ••• | - | () | () | UIE |
| CHECK YOUR PRESENT JOB TITLE. | | | | | | | | | |
| Automotive Mechanic Apprentice | (|) | Service | Advisor | or Writer | (|) | | |
| Automotive Mechanic | (|) | Job Spe | ecialist | | (|) | | |
| Other (please specify): | | | | | | | | | |
| | | | | | | | | | |
| HOW MANY YEARS HAVE YOU WOR | RKED | FULI | L-TIME AT | YOUR PF | RESENT | JOB? | | | |
| HOW MANY TOTAL YEARS HAVE Y | OU B | EEN E | EMPLOYED | FULL-T | IME IN T | HIS OC | CUPATIO | ON7 | |
| EDUCATION: | | | | | | | | | |
| 1. High School: Graduated from hig | h sch | o) loc | r equivalent) | : Ye <u>s</u> | | | No | | _ |
| 2. Vocational training (check one res for each type of training) | pons | e | | | Years o | f Atten | dance | | |
| for each type of training/ | | | None | Less Than 1 | 1 | 2 | 3 | 4 | 5 or More |
| a. Vocational-technical in high schoo | ы | | | | | | | | |
| b. Vocational-technical post-high sch | ool | | | | | | | | |
| c Junior or community college | | | | | | | | | |
| d. Four-year college or university | | | | | | | | | |
| e. Military technical training school | | | | | | · | | <u> </u> | |
| f Business school or business college | • | | | | | | | | |
| g. Formal company training program | | | | | | · | | | |
| h. Formal trade apprenticeship progr | am | | | | · | | | | |
| I On the job experience | | | | | | <u> </u> | | | |
| j. Other (specify) | | | | | | | | | |

3. After marking all of the above in question 2, also please circle one of the letters below indicating the one training situation where you learned most of your job skills (other than on the job experience).

abc de f**gh**ij

Thank you for your cooperation in completing this questionnaire.



DIRECTIONS

In the spaces provided someone has written different words that came to their mind as they looked at the key concept. All of their responses are different; they are single words, and they were presumably thinking about their work as they wrote. Therefore, they are appropriate responses.

| job knowledge | 1 perline | |
|---------------|-------------|------|
| job knowledge | still | |
| job knowledge | 1114 | |
| job knowledge | | |
| job knowledge | <u> </u> | |
| job knowledge | helphi | |
| job knowledge | her lamance | |
| job knowledge | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| job knowledge | | |

It is not necessary for you to fill in all 15 blanks or to try to write as many different kinds of responses for each key concept as the person did to "job knowledge." However, you should try to write all those responses that will best tell what the key concept means to you in relation to your work situation.



SAMPLE SHEET

•

| ······································ |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |



APPENDIX B-2

Experiment II: Response Distributions Pooled by Stimulus Phrase and Frequency



m 43



| mv opportunities for | me at work | | ICdenu |
|----------------------------|--------------------|--------------|----------|
| on-the-job training | me at work | FREQ | improv |
| on-iob-training FREO | happy | r. | |
| | efficient | ຕ່ | munda |
| | Asnq | 2. | knowl |
| poot | learning | 2. | Userul |
| | helpful | 2. | waste |
| freecom 1. | friendly | 2. | lack of |
| important for promotion 1. | fast | Ļ | goals o |
| limited 1. | normal | - | neot |
| necessary | here | | develo |
| available 1. | quick tempered | . | experii |
| schooling 1. | fluctuate | - | gregari |
| openings 1. | active | | ę |
| fair 1. | very hapny | ÷. | |
| develops skills 1. | conscientous | - . | union |
| capitalize 1. | boredom | - | none |
| increasing 1. | somewhat out of di | - | ron-ex |
| good 1. | develop skil!s | - | unneec |
| pler y 1. | comfortable | . | unnece |
| expected 1. | determination | - . | enplo |
| appreciated 1. | who am I | ľ. | is none |
| encouraged 1. | creative | - ' | questic |
| relied on to much 1. | routine | . | not ap |
| ing 1 | capable | 1. | close |
| non-related | hyper | - | not rel |
| endiess 1. | content | ' . | teamw |
| significant 1. | accurate | , - | not eff |
| education 1. | constructive | ' . | morale |
| search 1. | interested | , | not go |
| constant 1. | ingenious | Ľ, | dynast |
| desired 1. | clothes | ' . | not ne |
| required 1. | dependahility | - ' . | unders |
| no time 1. | reliable | ŕ, | none a |
| trainees 1. | responsibility | - ' , | นาพลา |
| important for skill 1. | why am I here | - ' · | penefii |
| self 1, | correct | - ' , | needec |
| wide 1. | industricus | . ., | less tin |
| the econc my 1. | like | . <u>-</u> , | negativ |
| interaction 1. | knowledge | - | kinder |
| never ending 1. | regulariy | ' . | not wa |
| experience 1. | unchallenged | Ë | helpfu |
| helpful î | impon nt | , , | Ved |
| demand 1. | speed | ' · | unprot |
| inquire 1. | productive | , | unreas |
| other jobs | loyal | <u> </u> | not co |
| opportunity 1. | practical | ." - | pjnow |
| | | | |

| | 1. import 1. excelle 1. clean | | : | 2 FREQ import 5. efficier 3. self-res | | 1. expens 1. enjoya 1. roomy 1. roomy | 1. morale 1. mot sur 1. benefit 1. rigorou 1. someti 1. crowde | 1. no preserve 1. pecople 1. Sob acc 1. | |
|---------------------------------|-------------------------------------|--|---|---|---|--|---|--|-----------------------------------|
| appreciated prove department | Indane Iowled seable eful | ste unte sk of respect als of department | veloping philosophy perience sgarious | o union on my job ion un my job ne mexistent | needed necessal _r nployees none | estionable t applicable se t relevant smwork | it effected orale it good nasty t needed derstanding | ine and I am glad wanted nefits eded stime gative iderance inf wanted | y y protected reasonable |

| 8 8 9 9 9 | مار کې د | و نو | ≓≓≓≓≓°≓°€°€° | FRLQ 6. 2. |
|--|---|---|--|--|
| my working conditions working conditions good important excellent clean fair improving relaxed pressure pleasant busy superior generally good | mportant Musicless Hficiency elf-respon ormal leasant ometimes notivating movable | sometimes chaotic roomy necessary morale not supervised benefits rigorous sometimes distract crowded no pressure | people relationship job accuracy contribute poor flexible could be better desire affect my overtime work | my overtime work necessary important |

- -

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| 1 | 1 | 3 |
|---|---|---|
| | | |

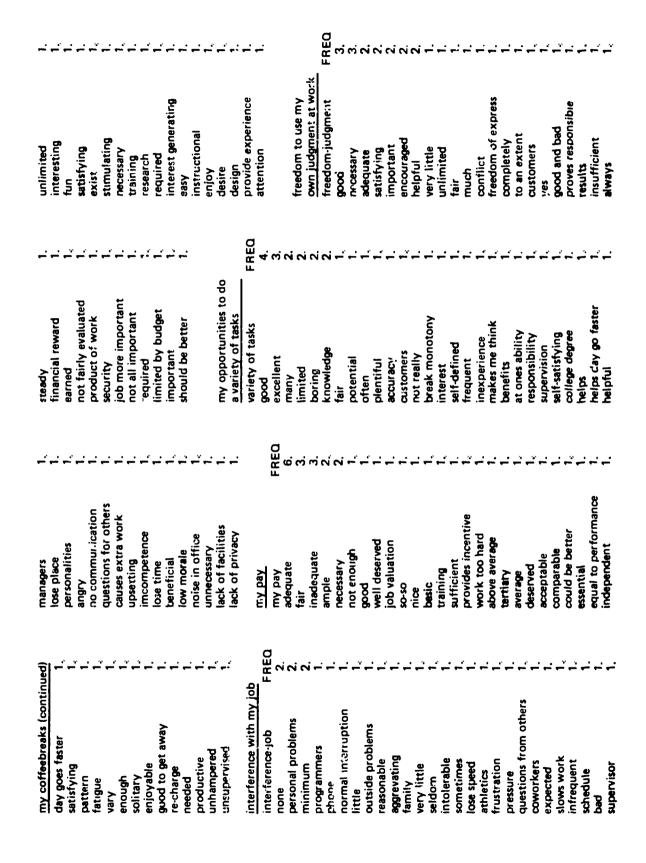
| concepts | stable | enjoyment | secure | | | | | relaxing | responsibility | power | all shifts | demanding | parameters | flexible | | | supervisor | • eniovable | - derandahility | - fulfilting | | - coven dave a wook | - mon and a | - chance | . not tied down | · | yenterar chaotic | . flow | · rewarding | · · · · · · · · · · · · · · · · · · · | . varies | | . my fringe benefits | mu frinne henefite | | | | - second | | | Augu . | Xiew. | vone . | is none | reasonable | expected | hours |
|-------------------------------------|--------------|--------------|-----------------|----------------------|----------------|--------------------|------------|-------------|----------------|-------------|-----------------|-----------|------------|------------|-----------------|---------------|--------------|--------------------------|-----------------|------------------|-----------|---------------------|-----------------|-----------------|-----------------|------------|---------------------|---------------------|----------------|---------------------------------------|-------------------|----------------|----------------------|----------------------------|-------------|---------------|-----------------|---------------|-----------|---------------|-----------|-----------------------|----------------|----------------|------------------|-------------|----------------|
| time 1 | no standards | inadequate 1 | | | mv iob FREQ | | accuracy 2 | satisfying | adeniate 2 | boring | | | | nuture | training | ment | - | manager of operations 1. | rigorous 1. | fair 1. | steady 1. | detail 1. | vacation 1. | excellent 1. | programmer 1. | super 1. | my choice 1. | good 1. | necessary 1. | fair play | lucrative 1. | operating 1. | easy | concentration 1. | systems | prestigous 1. | seir-satisfying | cratienge | . L | money 1. | time 1. | repitition 1. | morale low 1. | status 1. | supervising 1. | needed 1. | anick thinking |
| ۲. | . | - | | | | FREQ | 2 | í – | - | | | <u> </u> | - , | _ . | ' | , | | ₽. | - | - | ÷ | - | - | ÷, | | - | Ļ, | , | . | - | - ' | ' . | ' , | ' , | <u>-</u> , | | | -' , | . | . | | - | ť | - | - | | : - |
| time off | understaffed | week ends | | my control over work | methods | control of methods | fair | verv little | considerable | | locod | large | necessary | | choosing my own | uraccountable | full control | experience | poob Alan | adequate usualiy | myself | unstable | do fastest viay | limited | better job done | reasonable | insufficient | better than average | quick | motivating | more | some standards | knowledge | μ Λ | caried . | Supervisor | Training | Statistactory | routine | instructional | listen | rio set rules | cost | undecided | less than needed | opportunity | is chament |
| itinued) | 2 | i | | | | . . | - | Ê | : | , <u> </u> | | | | <u> </u> | _; , | ÷, | _ ' . | - ' (| | -' | ' | ' - | ' | . | -' | - | ' | - . | ` | - , | - , | , - , | _' , | | -' . | | <u> </u> | | | | ; | Ϊ. | ŕ | - | - | - | Ļ |
| <u>my overtime work (continued)</u> | unnecessary | no pay | my own decision | infrequent | part of my job | light | enjoyable | very little | bad | heavy hours | self-controlled | reursrded | | | LIOT MUCH | some | | limited | | reasonable | voluntary | behefit | not compensated | long fast hours | not expected | strenuous | sometimes necessary | odd hours | tinish on time | voluntary | must complete job | Trustrating | | unpaid ant the ion done | | | excossive | | | aeadiires | sporadic | dictated by deadlines | accomp ishment | self motivated | scheduling | work load | frequent |

E らっこうううううーーーーー

| Receller puck constration 2 owk method used FREC mot offectore/s No N messure 2 operation 2 a pairs No messure 1 hyper messure 2 operation No messure 1 hyper messure 2 operation Metric 1 hyper messure 2 operation 2 operation Static 1 hyper messure 2 operation 2 operation Static 1 noncontine 1 noncontine 1 hyper Static 1 noncontine 1 noncontine 1 hyper Static 1 noncontine 1 noncontine 1 hyper Static 1 noncontine 1 noncontine 1 noncontine Static 1 noncontine 1 noncontine 1 noncontine < | xcellent uperior ospitalization ay for | - | • | • | | | • | |
|---|---|----------------|-----------------------|------------|--------------------|--------------|--------------------|--|
| strot speed 2 organization strot stady 2 sequization 2 strot stady 2 sequization 2 strot strot strot strot 2 sequization strot strot strot strot secure 2 speed 2 strot st | uperior ospitalization ay for | | duick | 2. | work methods used | FREQ | my coffeebreaks | |
| For Stady S | ospitalization ay for | | speed | 6 | organization | ~ | relaxing | |
| Ordination Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<> | ospitalization ay for IK | <u>.</u> , | ctoorty | íc | | ic | chort chort | |
| for the server of the server o | ay for | ŕ | | ic | | vi o | | |
| as working plessure Instant Poor inspiring inspiring Instant Door inspiring Inspiring Inspiring Door intim Inspiring Inspiring Door intin Inspiring </td <td>- - -</td> <td>-</td> <td></td> <td>ic</td> <td>supervision</td> <td>Ň</td> <td></td> <td></td> | - - - | - | | ic | supervision | Ň | | |
| se working plesure Tappy medum mot importance Tappy medum mot importance Tappy medum mot importance mot importa | | . | | × • | poor | | neipidi | |
| etc reiser i resonable i most voutine i resonable vom most voutine i resonable vom modern i over independent over over independent over indepe | Takes working diezsure | - | happy medium | _ | not innovative | Ļ | usetul | |
| inspiring independent indep task i or of a free controlled independent independent independent independent independent i or of an independent i of a set and independent i of a set and independent i or and independent independent i or and independent independ | thletic | 1 | reasonable | ľ. | mostly routine | ÷. | no time | |
| inspiring independent by task in modern independent by task in modern independent by task independent by t | milv | : - - | self-controlled | . | XO | + | average | |
| Main Independent Non- training Independent Non- training and If etcls production If etcls production If etcls production If etcls production and If etcls production If etcls production If etcls production If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls and If etcls If etcls If etcls If etcls If etcls <td></td> <td>:.</td> <td>determined by task</td> <td>÷</td> <td>modern</td> <td></td> <td>verv few</td> <td></td> | | :. | determined by task | ÷ | modern | | verv few | |
| Best and bit Science (state (state) Science (state) Scienc | | | independent | ` | | | meaneint | |
| and Indian Indian Indian Indian Indian and equate Indian Indian Indian Indian Indian and excertage Indian Indian | Dabaa | _ . | | | | <u>.</u> | colf cohodulor | |
| uil interests production invited invited invite invites invites invites invites invites <td< td=""><td>ormai</td><td>-'</td><td></td><td><u>-</u>,</td><td>constant change</td><td></td><td></td><td></td></td<> | ormai | - ' | | <u>-</u> , | constant change | | | |
| Requate Requate Resultied Rental orkers 1 Restablished 1 mental off 1 rapid 1 rapid off Requate 1 rapid 1 restration if Restablished 1 rapid 1 rapid if Restand 1 rapid 1 rapid e average 1 rapid 1 rapid 1 rapid e concern 1 radidizity 1 radidizity 1 radidizity 1 e concern 1 radidizity 1 radidizity <td>seful</td> <td>Ļ</td> <td>affects production</td> <td>.</td> <td>varied</td> <td><u>, -</u>'</td> <td>required</td> <td></td> | seful | Ļ | affects production | . | varied | <u>, -</u> ' | required | |
| Nity indextoant indextoant indextoant indextoant indextoant Nity indextoant indextoant indextoant indextoant indextoant Nity indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant indextoant indextoant indextoant Indextoant indextoant <td>adamiate</td> <td>÷</td> <td>leisure</td> <td>÷</td> <td>mental</td> <td>-</td> <td>flexible</td> <td></td> | adamiate | ÷ | leisure | ÷ | mental | - | flexible | |
| Orders Non fast tion Self-choren self-choren Non fast tion ition ition ition ition econcern ition ition ition etinition ition ition ition etinition etinition etinition etant etanofficien etinition | i anerdina i e | <u>.</u> , | colf ectabliched | - | | : . | franijant | |
| liv in the second in the secon | DWORKERS | ľ. | | | | ÷, | | |
| tion tion to the followed to t | aniily | ÷. | 1871 001 | . , | seit-chosen | | good communication | |
| arereage is average indefined indefined is seff-regulatory indefined indefined is seff-control indefined indefined is seff-control indefined indefined is seff-control indefined indefined indefined indefined indefined indefined is autity indefined indefined is autity indefinition indefinition is autity indefined indefined is autity indefined indefined is autity indefined indefined is action action action is action action action is action action actions inum supervised indefined indefined inum action actions indefined initivity indefined indefined indefined </td <td>acation</td> <td>-</td> <td>rapid</td> <td></td> <td>Vary</td> <td>.</td> <td>at will</td> <td></td> | acation | - | rapid | | Vary | . | at will | |
| <pre>acconcern</pre> | | | self-regulatory | ť | ill-defined | - | too many | |
| end Finition Finition Finition end when down effinition Finition efful effinition effinition Finition effinition effinition effinition Finition end effinition endicting endicting endicting endicting endicting endicting endicting endicting field endicting endicting endicting endicting feare endicting endicting endicting endicting feare endicting endicting endicting endicting feare endicting endicting endicting | | . , | must he followed | - | | • | anutime | |
| et lu when down | SUUIS | Ļ. | | • | | <u>.</u> , | | |
| eful when down I hard hard rewarding euclet-paced I ouclet-paced rewarding acurative i ouclet-paced rewarding acurative i ouclet-paced rewarding acurative i ouclet-paced rewarding i acurative i oremain rewarding i acurative i acurative rewarding i i adjust i rewarding i i adjust i rewarding i appropriate i i rewarding i i appropriate i rewarding i i appropriate i rewarding i i appropriate i rever i i appropriate i rever i i aportarit i rify </td <td>ttle concern</td> <td>1.</td> <td>Self-control</td> <td><u>.</u></td> <td>definition</td> <td>-</td> <td>take preatins</td> <td></td> | ttle concern | 1 . | Self-control | <u>.</u> | definition | - | take preatins | |
| reverding quick-paced not progressive normal ortant quality reverding terminal or protected terminal quality reversing to the protected quality and the protected terminal quality and the protected terminal quality and the protected terminal termi | oneful when down | - | hard | ŕ | heipless | . | many | |
| Instruction accurate normal rewarding exerting ecurate normal rewarding escurate normal over-protected normal rewarding eff-adjusting normal over-protected normal remergency nortward new ideas normal over-protected normal remergency northing eff-adjusting new ideas new ideas new ideas security northing northing northing northing adjust normal security northing northing northing northing adjust normal security northing northing northing northing adjust normal inum supervised northing northing northing northing adjust norestaddis <td< td=""><td></td><td>:.</td><td>quick-paced</td><td>-</td><td>ont nrogressive</td><td>•</td><td>waste</td><td></td></td<> | | :. | quick-paced | - | ont nrogressive | • | waste | |
| ortant quality quality quality ewarding evarding efficient nontrant evarding efficient efficient efficient escurity nortward efficient efficient escurity northing efficient efficient imum supervised efficient efficient efficient imum supervised efficient explanations efficient imum supervised efficient explanations efficient imum supervised efficient efficient efficient imum supervised efficient efficient efficient imum supervised efficient efficient efficient imum supervised efficient explanations efficient imum supervised efficient explanations efficient intity fast eonstanting efficient efficient intity fast eoonstanting efficient efficient <td></td> <td><u>-</u>,</td> <td>accurate</td> <td>-</td> <td></td> <td>:.</td> <td>unrelated to job</td> <td></td> | | <u>-</u> , | accurate | - | | :. | unrelated to job | |
| rewarding remarked r | nportant | l. | | - | | <u>-</u> . | | |
| action 1 self-adjusting - efficient cation 1 normard 1 adjust cation 1 sporadic 1 adjust security 1 nothing - echnical leave 1 nothing - echnical immum supervised 1 rechnical - echnical immum supervised 1 echnical - echnical immum supervised 1 echnical - - intriviculation 1 econtrast - - ified < | ot rewarding | - . | | <u>.</u> | over-protected | I. | Asha ool | |
| adjust adjust cation adjust cation adjust security sporadic leave remergency leave remergency leave remergency leave remergency leave remergency leave remergency immum supervised regitable immum supervised regitable immum supervised regitable immum supervised regitable immore regitable important mos standards intro regitable intro regitable intro regutatory intro reget efficient intry | | | self-adjusting | ÷. | efficient | . | as many as I want | |
| zation zation zervervicy immodel immodel security security socradic immodel immodel leave nothing immodel immodel immodel immodel immodel immodel immodel immodel intity immodel immodel immodel immodel intity intervel immodel immodel immodel < | | | no reward | | adiust | - | lucky to get one | |
| atton security mothing mothing mothing mothing feave 1 sooradid 1 securical feave 1 confusing 1 securical feave 1 mothing 1 securical feave 1 mothing 1 securical feave 1 mportant 1 appropriate imum supervised 1 important 1 appropriate imum supervised 1 important 1 appropriate impound 1 individual 1 individual inity 1 intovidual 1 individual | | | emergency | - | | | fair | |
| security I ecurity I ecunical I econical leave I imum supervised I econical I econical I leave I imum supervised I econical I econicaco I econical | aucation | | energenery energie | • | | ÷, | | |
| leave 1 nothing 1 explanations imum supervised 1 important 1 disciplined imum supervised 1 important 1 disciplined imum supervised 1 important 1 appropriate imum supervised 1 important 1 appropriate imum supervised 1 important 1 appropriate important 1 individual 1 appropriate intity 1 individual 1 individual intity 1 interval 1 appropriate intity 1 interval | elf-security | . | sporauc | <u>-</u> , | technical | - | Aofua | |
| Image: spectrate Image: spectrate <td< td=""><td>ck leave</td><td>-</td><td>buittou</td><td><u>.</u></td><td>explanations</td><td>-i</td><td>not necessary</td><td></td></td<> | ck leave | - | buittou | <u>.</u> | explanations | -i | not necessary | |
| imum supervised important important kiguous important important kiguous important individual kiguous important individual kiguous important individual rity individual individual bie interve individual vast ist individual vability ist individual pertitive ist individual ified ist ist ist able ist ist individual field ist ist ist ified ist ist ist ified ist ist ist ified ist ist ist | reat | - | confusing | ŕ | disciplined | ÷ | benefit | |
| important important important iguous important individual individual fast work determined individual individual individual mostantard individual infortant individual mostantard individual infor inely individual mostantard infor individual mostantard individual infor intely individual mostantard vback intely individual mostantard vback intely individual mostantard vback interving interving individual vback interving interving interving vot interving interving interving interving interving interving interving interving interving interving interving interving interving interving interving interd interving interving interving interd interving interving | inimum currentiend | | reliable | | annronriate | - | relaxation | |
| iguous 1 work determined inity 1 init valuation inity inity 1 fast init valuation inity 1 fast pool use of tools inity 1 itmely 1 individual work determined 1 individual pool use of tools 1 wheck 1 uncontrolled 1 conservative 1 whech 1 uncontrolled 1 conservative 1 whech 1 uncontrolled 1 conservative 1 wheth 1 important 1 conservative 1 wheth 1 easy important 1 important ified 1 fast pace 1 puidance 1 1 ified 1 routine < | | | important | - | | - | few | |
| iguous I mot veremined individual individual individual intriventiation individual intervative individual intervative intriventiation intervative inte | | <u>,</u> | | | | <u>-</u> , | | |
| Firity fast in the fast in | mbiguous | - | WOLK DETERMINED | | Individual | ľ. | relaxation | |
| rify 1 timely 1 conservative 1 vback 1 uncontrolled 1 conservative 1 vback 1 uncontrolled 1 cean efficient 1 vback 1 uncontrolled 1 cean efficient 1 vback 1 uncontrolled 1 cean efficient 1 vback 1 accuracy 1 cean efficient 1 vbality 1 crash program 1 cean efficient 1 vble 1 fired 1 mportant 1 ceast efficient 1 vble 1 fired 1 physical 1 1 important fied 1 fired 1 physical 1 1 1 fied 1 fired 1 physical 1 1 1 fied 1 fired 1 physical 1 1 1 1 fied 1 fired 1 poution 1< | nience | - | fast | , | good use of tools | . | boredom | |
| k pace used on my job k pace used FREO k pace used free k pace k pace used free k pace used free k pace k p | | | timely | | conservative | - | not much used | |
| k pace used on my job k pace used FREO 1 set my own pace k pace used freo 1 set my own pace 1 set froo froo froo 1 set froo k pace k pace used froo 1 set my own pace 1 set froo k pace h pace 1 set k pace 1 set k pace h pace 1 set k pace 1 set k pace h pace 1 set k pace 1 set k pace h pace 1 set k pace 1 set k pace 1 set k pace 1 set k pace 1 | | | lato | - | | : - | breake montony | |
| vback 1 uncontroled sett regulatory rving 1 accuracy sett regulatory petitive 1 accuracy limportant vability 1 fast pace 1 sett regulatory vability 1 fast pace 1 sett regulatory 1 able 1 fast pace 1 skill 1 skill 1 able 1 fast pace 1 skill 1 skill 1 able 1 physical 1 physical 1 1 field 1 skill 1 physical 1 1 d better 1 publication orient 1 skill 1 1 d better 1 pood use of time 1 say 1 1 k pace used 1 finish the job 1 finish the job 1 1 k pace used 1 finish the job 1 finish the job 1 1 abolication 1 | Itticient | - | | :. | | <u>-</u> , | | |
| rving r. rving 1. accuracy 1. important petitive 1. crash program 1. important vability 1. crash program 1. important the tast pace 1. skill skill by skill fied 1. experienced 1. physical fied 1. assy routine 1. guidance assy d be better 1. routine 1. guidance t pushing 1. pushing d be better 1. not pushed 1. guod use of time t pace used on my job k pace used on my job f set my own pace 1. finish the job t set my own pace 1. finish the job t set my own pace 1. finish the job | rawback | . | | ÷ | seif regulatory | - | 5 June 1 | |
| petitive 1 crash program 1 new methods 1 vability 1 fast pace 1 skill 1 able 1 fast pace 1 skill 1 fied 1 fast pace 1 skill 1 fied 1 fast pace 1 skill 1 fied 1 fast pace 1 physical 1 fied 1 fast pace 1 guidance 1 reciated 1 fast pace 1 guidance 1 reciated 1 guidance 1 guidance 1 d be better 1 good use of time 1 pushing 1 k pace used 1 good use of time 1 ingic 1 k pace used 1 ingic 1 ingic 1 | eserving | 1 | accuracy | | important | | critical | |
| vability 1 fast pace 1 skill 1 bie 1 fast pace 1 skill 1 fied 1 fast pace 1 physical 1 reciated 1 easy 1 easy 1 d be better 1 pood use of time 1 id be better 1 pood use of time 1 k pace used on my job 1 set my own pace 1 finish the job k pace used 7 tractifics 1 | ombetitive | | crash program | ٦. | new methods | ÷ | if time permits | |
| able 1. physical able 1. physical field 1. guidance reciated 1. guidance reciated 1. easy reciated 1. easy d be better 1. pushing id be better 1. good use of time k pace used on my job 1 set my own pace 1. k pace used 1. finish the job | | : - | fast pace | ÷ | skill | - | two | |
| Able fatigue 1 guidance 1 reciated 1 easy easy 1 reciated 1 easy 1 easy Id better 1 pushing 1 Id be better 1 pushing 1 Id finitish the job 1 finitish the job 1 | | | experienced | ÷ | nhveirat | - | self-defined | |
| med 1 easy existed 1 easy easy tecated 1 easy easy tecated 1 d be better 1 routine 1 pushing 1 id be better 1 jobs 1 pushing 1 id be better 1 jobs 1 pushing 1 k pace used on my job 1 set my own pace 1 finish the job 1 k pace used FREQ 1 set my own pace 1 tactifics 1 | | <i>.</i> | fatione | - | | :. | more energy | |
| rectated 1, easy - easy - easy - easy - easy - 1. I routine 1. pushing 1. pushing 1. Id be better 1. jobs - 1. good use of time 1. not pushed 1. good use of time 1. A pace used on my job - 1 set my own pace 1. finish the job 1. A pace used FREO 1 set my own pace 1. tinish the job 1. A tactifics 1. | itisfied | ŕ | | | guiuance | <u>-</u> , | | |
| 1. routine 1. pushing 1. Id be better 1. jobs 1. good use of time 1. not pushed 1. 1. good use of time 1. k pace used on my job 1 set my own pace 1. logic 1. k pace used FREQ 1 set my own pace 1. finish the job 1. | opreciated | Ļ | edsy | <u>-</u> , | easy | - | | |
| Id be better 1. Jobs 1. good use of time 1. not pushed 1. application orient 1. k pace used FREQ 1 set my own pace 1. finish the job 1. | lir | ÷. | | _; , | pushing | | preaks up the day | |
| k pace used on my job deadlines to meet 1. application orient 1. k pace used on my job 1 set my own pace 1, finish the job 1. k pace used FREQ 1 set my own pace 1, tactics 1. | ould be better | ÷ | 1005 | <u>-</u> , | good use of time | ,: | rolaxed | |
| k pace used on my job deadlines to meet 1. logic 1. 1. k had in the job 1. k pace used FREQ I set my own pace 1, finish the job 1. tactics 1. tactics 1. tactics 1. | | | not pushed | , ··· | application orient | ÷ | improves ability | |
| k pace used FREQ I set my own pace 1, finish the job 1. | ork nace used on my job | | deadlines to meet | . | logic | . | fun | |
| k pace used FREQ 1. The tractice of the second s | not All the neen and the | | i set my own dace | Ļ | finish the job | - | no restrictions | |
| | | REQ | | | | | not well defined | |
| | st | Þ | | | ractics | - | | |



r⁻ 120





| freedom to use my own | _ | are nice | Ļ | pood | Э. | tiring | ÷. |
|------------------------------|------------|------------------------|--|----------------------------|------------|---------------------------|-------------|
| iudament at work (continued) | tinued) | good natured | | pusy | n | keys | <u>-</u> . |
| | - | friends | 1 . | satisfying | 5 | fixed | - , |
| | <u>.</u> , | loval | , | eniovable | , , | available | Ľ. |
| available | | NC R | - | too lona | • | | |
| makes work easier | Ľ. | | : | irren tler | | | |
| good of company | . ' | | :. | | : - | teeling of accomplishment | 10 |
| iobs | • | TEBITWOIR | ÷. | | | | |
| | • | varied | Ϊ. | standard | - | | I |
| | | iow morale | ÷ | enjoy | ï | accomplishment-work | FREQ |
| | <u>.</u> | normal | . | excellent | . | pood | ň |
| underestimated | س | (air | - | accentable | ţ, | hint | 0 |
| job quality | Ľ, | etrictly business | ; | not set time | - - | | in |
| interference | - | | | | :. | A speccanal | ic |
| normal | - | people | - , | Varies | <u>.</u> , | pride | i, |
| instructional | : . | productive | . | good for production | - | varies | - . |
| | · | TOUND | . | vary | - | considerable | - |
| good of employee | ÷. | experienced | , | satisfied | ÷ | verv avod | . |
| money | <u>.</u> , | some problems | • | inflexible | 1. | creat | - |
| responsibility | r. | helping | - | had | | | - |
| used | - ' | E | | horing cometiment | - - | | |
| rewarding | - | | ~. - (| contribution of the second | | Autenb | <u>.</u> , |
| time finished | - | helptuiness | - | convenient | - . | getting better | ľ |
| | - | idle | Ŀ. | depends | | job well done | " |
| | <u>-</u> . | good group | , L | average | - ' | varving | - |
| OCTOR (CLA) | <i>.</i> | many | - | worth while | <u>,</u> | eniovable | • |
| required | <u> </u> | lemin | ` - | challenge | ţ | mond for mycelf | - |
| people | ~ | sources of information | ÷ | comewhat flexible | : | erential for output | - |
| managers | | | - . | | :. | | |
| learning | Ļ | cooperative | ŕ, | | - . | occasionally | <u> </u> |
| | • | efficient | , | decide myself | Ľ, | normal | -' |
| increased | • | fun-luving | ÷. | constant | i. | correct | - |
| | | theoretical | - . | kengthiy | ÷. | frequent | ' |
| | | competent | Ļ | my choice | . | mundane | . |
| | | appravating at times | - | not routine | ÷. | satisfying | |
| my reliow workers | | fear | | fair | t. | well done | - |
| my fellow workers | FREQ | fun | | iudament | t. | celf.gratification | - |
| friendly | ۍ. | ZELO | | asset | 1. | | - |
| helpful | 4. | hard-working | - | oratifving | ţ, | renner herkarnind | - |
| ÖK | ຕ່ | | | somewhat flexible | - | | |
| knowledoeable | ຕ່ | | : | not strict | : . | | - |
| buo | 5 | bard workers | • | l deservice comendat | - | | <u>^</u> • |
| intelligent | 5 | | | | ÷. | | |
| | ic | | | | - . | | <u>,</u> |
| | ic | | | | <u>-</u> . | elation | ` . |
| | vi c | inexperienced | | self-determined | <u>.</u> | reliable | - . |
| considerate | Nic | cross section | μ. | used fully | . . | motivating | |
| accurate | . . | | | job benefit | - . | routine | <u></u> ' |
| unconcerned | | my working hours | | variable | . | service | |
| cooperative | ٦. | my working hours | FREQ | full | - ' | improvements | ٦. |
| | | | 4 | | | | |
| | | | e. | | | | |
| | | 7 -5- | ; | | | | |



· - 122



feeling of accomplishment at work (continued)

adequate

123

| vorkers | を それる。 その。 その。 その。 その。 その。 で、 で、 で、 で、 で、 で、 で、 で、 で、 で、 の、 の、 の、 の、 の、 の、 の、 の、 の、 の、 の、 の、 の、 |
|-------------------------------|---|
| interaction with my coworkers | interaction with my con- interaction-coworkers accessary good frequent helpful relaxing enjoy poor communication friends lots of interaction high easy excellent generally good active generally good active pood and bad important important fun fun fun fun fun fun fun easy to get along enjoyable respect understanding grants neads improvement |

| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Pothers Sector S |
|---|--|
| good relationship often happiness honest social informative learn no problems cooperative loyal communicative dequate friendly some friction understanding cordial more knowledge cooperation takes time limits refreshing desirablr | opportunities to help ot in the community help others - community imany fimited charities none very good fair exta work great indirectly guidance good no time some withdraw enriched life isolated no time commal |

| ې کې | 2 2 2 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 |
|--|--|
| frequent obligated minor bart of job experience job contact only useful conccrn recessary vocational individual individual individual individual rewarding charity satisfying enjoy willing anity satisfying enjoy anity sullable not relative growth ability not helpful understanding superfluou i | prestige on my job in t community prestige-community high excellent very good fair feel important over-emphasized good I guess respect damn good not discussed |

| | - |
|---|----------------|
| not important-me unique rewarding low misunderstood varied happiness understanding respected over-emphasized not important peace of mind assistance | accomplishment |

~ ٠.

sharing by supervisor happiness excellent

accurate relative

| f-fulfilment | FREO 2. | i ni | ณ์ ณ | ┵┎ | | (<u>-</u> . | نىر ئ | '' | <u>م</u> کو | نہ ن ے | í | - - -` | <u>ب</u> | : . | : | |
|-----------------------|---------------------------------------|--------|-------------------|------|------------------|--------------|-------------|----------------------|--------------------|---------------------|---------|-------------------|-------------------------|------------------------|--------|---------------|
| pportunities for sel- | self-fulfiilment FREQ unlimited 2. | varies | necessary open | poor | loads average | | epend on me | excellent freedom | great important | hot teken imited | dequate | ow morale | elf-defined xusiness | orimarily stativity | bility | Mesire |

⊷° ⊷ ≓

regardod as good adequate

security unimportant

easy satisfying low-profile

| e e e | ies for promotion FREQ 2. | i ~i ~i -i -i | 8 | : | : | r | 202020 | larder |
|---|--|--|---|--|--|---|---|--|
| cost savings necessary reliability | my opportunities for promotion opportunities-promotion none | many accuracy good | fair OK good knowledge of job | validity wide open doubtful work | excellent training few to none hopeful | interdepartmental reasonable sufficient good in past nill | motivating performance honesty depend on me desire self-initiative | responsi ble salary advance not defincd small raises make my try h _i arder restricted |
| of FREQ | 4400- | i e e e | | ہ نے ثے ہے ۔ | نے نے نے نے نے | | | |
| supervisor's evaluation of <u>my work</u> supervisor's evaluation | good fair important accutate | excertent accepted infrequent very good | outstanding good to excellent helpful underestimated | important for future frank effects next job satisfied | bright future normal frequent ego building self-evaluation | unnecessary compleze quite objective some disagreement I am not appreciated | improves my accuracy meaningful communicate length of employment clear encouraging | informative honest rewarded efficient picky |
| | -' L L L | ר דאר האר היי היי ב | - | al at at at . | | : | eeeee | |
| required available listening | unknown my job security | my job security good important excellent | bad reasonable new work volatile | very secure skill above average very good | adequate essential unnce:sary satisfying | is none is none necessary questionable safe vnimportant | efforts experience no worry fear training | dead wood kept on required loyalty family same |
| | | <u>م</u> ا ما ما م | FREO F | ; vivi | . <i></i> - | ≓≓ ≓ ≓≓, | i ei ei ei ei | ب تے ہے تے تے تے تے |
| opportunities for self- fulfillment (continued) broad | experience responsibility not encouraged past | professionalism crisis ego satisfaction performed | my presitge work f | | | fair not important little to none necessary future | looked up to satisfying unnecessary part of the group equal hard work | opinion not valued importance neurotic job quality teader normal |



⁻ 124

| my opportunities for | | nal JPA | | | | | |
|----------------------------|-----------------|-------------------------|--------------|---|--|---------------------|---|
| promotion (continued) | | secure | - | natural ability 1. | | satisfaction | - |
| | • | self-defined | - | compassion 1. | | accuracy | ÷ |
| | ÷, | normal | | doesn't see bad 1. | | importance of post | |
| availaDie | - | reconcible | : - | more inh | | knowledneshle | - |
| at the top | . -' | | - · | friends | :_ | | : - |
| precision | - | coworkers a | - ' , | | | | |
| results | | growing | - | airs | <u>.</u> | rewarueu | <u>-</u> , |
| | | self-produced | | helps some | | used | |
| auvancement | <u>.</u> | not worked at | - | strong 1 | | aet work out | - |
| bad | | | | | : | annination | - |
| rules | - - | | | | | | - |
| 1 | • | my supervisor's ability | | doesn't others | | tuture | - |
| : | | to handle people | | | | initiative | ÷ |
| my self-confidence at work | ¥. | | | my competence at work | | help others | - |
| mv self-confidence | FRFO | sup. handle people | FREC | | (| terminark | • • |
| |) : (| fair | က် | competence at work FREQ | ËÖ | LEALTWORK | <u>-</u> , |
| noch | <i>.</i> | understanding | ~ | adeouate 3. | ~ | boredom | |
| varies | Ż. | | ic | excerience | ~ | growing | ÷ |
| faır | 5 | | ic | | | Drestige | |
| important | 2. | adequate | ; | | | interest | - |
| Unecest V | | necessary | . 2 | excellent | | | |
| record 7 | i c | pood | c, | high 2. | ~; | entinusiasin | - |
| | vi (| mod/had | - | increasing 2. | ~ | | |
| experience | z. | | | monficience | | davdreaming at work | |
| knowledge | , S | great | ÷, | | ; _ | | |
| training | | needs building | ' | tair 1. | | daydreaming-work | L L L L L L L L L L L L L L L L L L L |
| | i - | extremely | ÷ | none 1. | ` | very little | c, |
| urgn | <u>.</u> | evrellent | • | guestionable | | necessary | 2 |
| minimum | - | | ÷. | | | horadom | i (|
| average | . - | management | <u></u> , | | | | i • |
| verv hiah | • | very good | ŕ | Knowiedge | ~ | no time | - |
| active station | • | extremely good | . | above average 1. | | never | |
| | - . | help | • | supervisor 1. | | sometimes | |
| excellent | | | : . | | | occasional | - |
| needed | . | | - . | | | | |
| could be better | - | Important | <u>.</u> | (Abes of Jons | <u>.</u> | | - • |
| real | - | unconcern | - | Tast I. | | Trequently | <u>-</u> . |
| heneficial | - - | see's only good | . ' | could be improved i. | | not interest-job | - |
| | | smooth | - | average 1. | _~ | sometimes useful | |
| ease | <u>.</u> | heneficial | • | unfair | | imposible | - |
| required | , | | <i>:</i> , | | | | - |
| certain areas | | personnel | | | <u>.</u> | none | <u>-</u> , |
| reculte of iob | | honest | ' | potential 1. | | Scirce | - |
| | ÷., | non-offensive | - | not questioned 1. | | rare | ÷ |
| | - , | overly detailed | - | necessary 1. | · | useful | - |
| scarce | | | | ckill 1 | | 6364 | - |
| helpfuł | Ļ. | problems | | suu | | Acces Acces | |
| ob ability | | poor management | | | | at times | - · , |
| hard to come hu | ÷ | lenient | - | background | | shouldn't be | |
| | <i>.</i> | training | <u>, </u> | concern 1. | | much when new | - |
| nappy medium | <u> </u> | lax | - | speed 1. | | not time | ` ' |
| strong-willing | | taken advantana of | ; . | self-reliance 1. | | little | - |
| reinforcing | | beet | - | Dav | _ | work is horizo | |
| greater | - | | | efficient 1 | | | - |
| respect | - . | activity | - . | imortant | | | |
| others | . | | | reconited | <u>. </u> | | •• |
| managers attitucle | , | opjective | | | • - | | <u>-</u> , |
| | | uninformed | + | expansion | | almost and avistant | - |
| | • | | | | | | - |



| unity 1. | <u>.</u> | ' of mv job | FRFO | | ic | ic | i | | ÷. | | ÷ | - | <u>.</u> | | : | : <u></u> | ÷ | ÷- | ÷ | . | . | ب | . | ' | ÷. | ÷. | ÷ | . | ⊷.• | - • | -' - | | ني <u>.</u> | : ـــ | | | FRFO | 4 | i r | י ה | י ה | ה ני | n r | i c | j |
|---------------------------------|-----------|-----------------------------|------------------|---------------|-------------------------|--------------|----------------------|---------|------------|--|--------------------------|----------------------|--------------------------|------------|-------------|------------|----------------|----------------|-------------------|-------------|---------------------|-------------------|----------------|------------------------|-------------------|------------------|----------------|--------------------|-------------|-------------------|-------------------------|-------------|-------------|-----------------|-------------------|----------------|----------------|----------------|--------------|----------------|----------------------|------------------------|----------------------|-----------------------------|--------|
| education opportunity | clean | moral "rightness" of my job | moral "rinhtnee" | morationable | | bonet | norest no oninion | | normal | Fair | inamirahia inamirahia | accented accented | aucepteu not affected | challenge | ethical | excellent | importance | very important | personal attitude | unknown | no good no harm | expectation | not ouestioned | nrt religious | ueople | right for me | resppnsibility | no human benefit | no guilt | Visites Sector | haining | icolated | helo | not wasted | | my supervisor | my errenient | fair | | | halmfail Balmfail | eipiui | good aant aning | easy guing underetanding | |
| ÷. | | | ; | - | , | , - . | | | | | | - | | - ' | | - - | | × | ם • - | , | | | | د -`` | а | | ב ר. | ۔ , | - ,- | ; ,_: | ; . | | : د ب | . c | . | | , e | = 4 | | ، د | ۔ ۔ | - • | - | : ف | , + |
| essential | pen | variable | training | irrelevant | knowledge | mind | machine | brains | acod shape | eraser | easy to use | technical | data recorder | pencils | disk | limited | skill | fun | pencil | erricient | coding sheets | scredule | | sopnisticated | pencil and paper | secretarial help | complex | very good | boring | DEDOTAM | keypunch | telephone | control | reference works | accessible | super office | mental skill | challenging | other people | think | easily used | excellent | rmystery | unit record equipment | |
| ا سو | 。. | , - ¹ - | | | : | :. | : | - | ÷. | | | | <u>.</u> | • | · • | . | ÷ | ÷. | ÷ | . | نے | . ., | - | . | 1. | ť | ⊷ | ، نیم | | -' + | - | ÷ | : | | | | FRFO | | i m | i m | | je | i c | in | j |
| great | like more | responsibility | denend on me | | interect | eaticfying | | | evented | acticulation atticulation attic | | fine | ability | unbonded | accented | attitude | rut . | fine | ability | unbonded | history | managers response | knowledge | education | groups | unknown | ingenuity | provide experience | environment | | bruauening Prisinese | competition | | | equipment used on | my job | equinment used | computer | | modern | fact | adaminata adaminata | auequate reliable | | |
| (continued) | ' | ŕ | <u>ب</u> | - ' · | u. | <u>, '</u> | Ľ, | ŕ | ŕ | ' . | | <u>.</u> , | -' • | <u>-</u> . | -' - | <u>-</u> . | | ÷. | ÷. | ╏╺┷┙ | : <u></u> ' | ` ~ ` | ſ | q | 2 | | יייי | n r | ini | 2 | ÷, | ÷ | ÷ | | ' · | , , | . | , ¹ | - , | ŕ, | - , | Ľ, | . نم | - , | - |
| daydreaming at work (continued) | escape | infrequent | lose time | concentration | varies with involvement | too busy | preoccupied | explore | not often | interest of work | varying | sometimes needed | less accuracy | | | required | uncontrollahla | weeted motion | enthusiasm | imagination | work load determine | challenge | | my apportunities to do | challenoinci work | | | trequent | limited | important | rare | average | good | few | importance | many | minimal | excellent | much | employer | vary | sometimes | show ability | available | |



• •



| iny supervisor (continued) | flexible | ~ | outo |
|----------------------------|-----------------------|---|--------------|
| knowledgeable 2. | no complaints | . . | lengt |
| | normal | - | defir |
| best). | 0X | - | Ëg - |
| competent 1. | nonstringent | - | Cuan |
| not applicable 1. | excellent | | |
| - | undetermined | ' , | anob |
| friend 1, | very good | -' . | |
| professional 1. | work | ' , | |
| relationship 1. | superior | . | |
| - | not enforced | . ., | use c |
| intelligent 1. | strange | | accu |
| n 1 | essential to job | . | poof |
| constructive 1. | lenient | <u>-</u> , | respo |
| job distributor 1. | job results | ' , | nece |
| necessary 1. | loose | - ' , | SDer. |
| diligent 1. | sc.ne irrelevant | ŕ, | eight |
| experience 1. | Toliowed well | ' , | beak |
| unknown 1. | not overly demanding | - . , | knov Knov |
| efficient 1. | vague | <u>-</u> . | nnha |
| patient 1, | advantageous | ' | opi |
| great 1. | | - ' • | mini |
| urderstanding 1. | pretty flexible | | well |
| kind . | parking bad | ' | well- |
| tennis 1. | relaxed | ' | saves |
| poor manager 1. | ill-defined | Ļ, | prob |
| important to have 1. | protessional | ' · | Xes Ves |
| responsive 1. | jobs completed | - , | not 1 |
| background 1. | stupid | . ., | Some |
| - | secure | | parti |
| - | tair | <u>, , , , , , , , , , , , , , , , , , , </u> | adeq |
| accessible 1. | tine . | <u>-</u> , | වේ |
| te 1 | everchanging | | suffi |
| sympathetic 1. | important | -' . | Sout |
| personal feelings 1. | non-harrassment | - ' • | LIOU . |
| mature 1. | problem | ÷, | knov Knov |
| considerate | | - • | gol |
| - | | - , | Dette |
| le 1 | need revision | _`, | adde |
| problems 1. | necessary | <u> </u> | expa |
| developer of good 1, | quality work | - . , | bord. |
| peace keeper 1. | | ' , | does |
| guidance 1. | bearable | _ , | pote |
| 1 | regular | ., | шoş |
| company policies on my job | sometimes ill defined | | prod |
| company policies FREO | required | . | limit |
| | mismanaged | ' (| frust |
| | not well defined | Ľ. | not |
| | | | |

| tairite des cores estinations estinations estinations estinations estinations estinations estinations estimations | and a set of the set o |
|---|--|
| | |
| ut of date ength of stay kefined ome petty hanging too slow ould be better overnment work se of my abilities at w | of abilities of abilities aracy eracy essary essary essary essary estan inty percent ks weldge ampered completed-time imum intum fully used fully used tused fully used fully used tused fully used tused tused tused tused tused tused to ed to anding grams soft use all the unfulfillment duction tited tation tited |

| يو | با ۲۳60 ۳.6 |
|--|---|
| kearning conflict saves cost poorly managed desire patience fair extensive average like | recognition for my work recognition-work normal |

| | | FREQ | ы | ຕ່ | ~ i | <u>.</u> | ~ | , 'S | . | , | - | <u>-</u> -' | - | . | - | - | ÷. | ÷. | ÷ | ÷. | . | . | ÷. | Ļ. | - | . | , | . ., | , | <u>.</u> | - | Ļ, | ' , | | | ÷ | |
|-----------------|-------------------------|------------------|--------|----------|------------|----------|-----------|--------------|--------------|--------------|--------|-------------|-------|------------------|--------|---------|----------------|-----------|--------|-------------------|---------------|--------------|--------------------|-----------|------------|---------------|--------------|----------------------|-------------------|----------------------|------------|--------------|----------|----------------|------------------------------|-------------------|--|
| averaye like | recognition for my work | recognition-work | normal | adequate | good | ego | promotion | appreciative | poor | aver age | common | works | small | self-recognition | salary | unaware | very important | sometimes | little | managers attitude | critical | low morale | silently recognize | important | satisfying | not necessary | helpful | employee recognition | self-satisfaction | helpful for next job | supervisor | gotten worse | , - ` | successfulness | monetary no communication | not demonstrative | |



| recomition for my work (continued) | continued) | alwavs worked out | |
|------------------------------------|----------------|---------------------------|------------|
| fact | - | mismanaged 1. | |
| | | - | |
| nequent pay chark | | challenge 1. | |
| fulfilites | : | needed 1. | |
| oratifving | • | - | · |
| title | ئے : | •• | |
| not really important | - | ication 1 | • |
| fulfillment | ` ' | - • | |
| reliable | , ' | ievances 1 | |
| freedom of methods | . | ecessary | • |
| rewarding | ، | - • | |
| respect | , | hany har | |
| no pay | - | rairness | |
| advancement | | - ** | |
| necessary | , | | • |
| capable | , | ation 1 | |
| heeded | - · . | ment | |
| luiaista Matravi | | | |
| | ÷ | | |
| | <u>.</u> | my control over work pace | |
| | | control over nace FR | FREO |
| | | | 1 |
| nanging of guevances | | | |
| | | | |
| ance | FREQ | | |
| understanding | ri c | le | • |
| poor frir | n r | ally good 1 | ٩ |
| | i c | la I | <i>′</i> • |
| necessary normal | . | | • |
| BUGILY | : | - • | ÷ |
| fairly easy | : : | | |
| important to coworker | . | | • |
| not fast enough | . | | |
| subtle | مار ا | t 1 | • |
| no problem | . | - | • |
| supervisor seldom | - · , | good but varies 1. | • |
| excellent | _` • | not good 1 | • |
| good supervisor | | | • |
| poorly | | ant 1 | • |
| auequate communities | | | * |
| communicate dissentation tad | - ` - - | | |
| Dén fragmant | ÷ | lule 1 | |
| indimension Intofestatic | | - • | • |
| | : | | |
| no action | : | | |

μ.

no action

| والمراجع لمراجع لمراجع لمراجع لمراجع لمراجع لمراجع لمراجع | • |
|--|--------|
| adequate better job done frustration not learned how peaks amount helpful interaction governed by deadlines getting job done slow more accurate my fault smooth columns beneficiary screw-ups more responsibility | Outers |

1.^8

APPENDIX B-3

Experiment II: Automotive Mechanics' Response Distribution, by Stimulus Phrase and Frequency



| my opportunities for | | fast | с, | needed | 2 | ir ıproving | 1. |
|-----------------------|--------------|-------------------------|----------------|-----------------------|----------------|----------------------|--------------|
| on-the inh training | | clean | Ċ | unnec ssarv | 2. | comfortable | - |
| Filling to colour to | | fair | i | company | i | oood management | 1 |
| on-job training | FREQ | honest | in | | | cleaner | - |
| poob | ٦. | | ic | | :. | tools | |
| helpful | ന് | | i • | | | | |
| necessary | с, | | - · | | | | |
| everyday | 5 | Juine | -: . | | | | |
| needed | ~ | | - · , | no more | -' - | organized | - . |
| not enough | ~ | De on time | _; . | close | -' - | COWOLKEIS | |
| o Xo | 2 | every day | ' , | | - · , | neiter | -' - |
| knowledae | i c i | steady | _ <u>`</u> , | no thanks | | entrance | -' . |
| alwavs | i | Jornal | ' · | can't get one | Ľ, | secure | -' , |
| none | - | Addet | · | not wanted | - '' | good benefits | ' · |
| DOOL | | quiet | ' | togetherness | | neater | , î |
| Dreat | | early | - | I don t lik | - | necessary | Ľ, |
| greet evenlant | :. | l am good | . . | helpful | ť | crowded | |
| ir acod | | attitude | . | too much money | - | morale | Ļ |
| bood si | - . | alone | ' | hassle | - | time | - |
| | <u>-</u> , | romptness | Ĵ | friendship | Ļ | experience | Ļ. |
| short cuts | . | not acod | _ | benefits | | understanding people | - |
| cooperation | , | learn | · | trouble | : _ | oilv | |
| fantastic | | could be tratter | - | | | schooling | - |
| par | ŕ | denordable | | | - . | Surgers | |
| above average | • | neperiudure 1 | <u>-</u> , | | <u>-</u> , | AupalA | ľ |
| schools | | productive | ' , | impossible | | | |
| do the job facter | - | tired | ' | . : | | my overtime work | |
| ability | - | thorough | , | my working conditions | | my ov. rtime work | FREQ |
| | | here | | working conditions | FREQ | none | 6. |
| | | friends | Ļ, | pood | | necessary | 2 |
| | . | necessary | - | fair | . 4 | monev | i n |
| | - . | independent | ÷ | could be better | | heloful | i 0 |
| varied | -' . | meaningful | - | | ຳຕ | | ic |
| wanted | <u> </u> | efficient | - | | ic | | i - |
| better ability | ĩ | aneripation | | clean diate - | vio | | - . , |
| service books | ť | improving | | | N O | | |
| do the work right | ŕ | reliable | | 5 | N O | plenutur | -' - |
| a must | - | fulfilment | ÷ | space | . i . | ho pay | -' . |
| responsibility | , | roffae | | Dest | | Tair | <u></u> , |
| skill | Ļ. | berformance that counts | | some are good | | neiptul to check | |
| experiencing | ÷ | | | are good | _ | a lot | . |
| coworkers | Ļ | | | important | | unnecessary | _ |
| notices | . | | -' - | grease | - | average | - |
| the best way to learn | - | | | average | Ĵ, | when needed | Ļ. |
| work conditions | Ļ | | <u>-</u> , | bad | - | not compensated | ľ |
| best way to learn | - | triendly | <u> </u> | heat | - | productive | 1. |
| interesting | : _ | earning | <u> </u> | manual | - | tired | - |
| supervision | ; <u>-</u> | | _; , | helpful | . - | rewarding | - |
| | : | cooperative | ŕ | duty | , | profitable | - |
| me at work | | | | poor | ľ | commission | - |
| | | me union on my job | | unity | - | not much | - |
| | | union on my job | FREQ | room | | great amount | <u>-</u> |
| Asnq | ຳ ຕ່ | anon | 14, | parts department | ľ | experience | Ľ. |
| • | | | | | | | |



- ---



| In a continue to in the feature of | | | | | | | - |
|------------------------------------|----------------|------------------------|----------------|--------------------|----------------|------------------------------|---------------|
| flatrate | - | my job | FREQ | training | ' | | - - |
| helps | , - - | money | 9. | experiences | ' . | sports | |
| no time | | poop | 4. | needed | . | good people to work with | - |
| not appreciated | - | mechanic | ~i | coordination | | doi um ao boon occa drom | |
| occasionally | . | dirty | 2. | experience | | MUR Pare used on my high Jun | |
| home | - | like it | ~ | growing | ' | work pace used | FREQ |
| not on weekends | - | rewarding | 2. | helpful | | fast | m. |
| tiring | - | knowledge | 5 | different | . | clean | |
| n | : | fun | ~ | discipline | . | OK | . |
| my control over work methods | ods | work | 5 | useful | - | is good at times | . |
| | | (riends | ~ | | | average | . |
| ol of methods | חשני | sometimes OK | | my fringe benefits | | steady | ť |
| none | ব ৰ | is a cood tob | | mv fringe benefits | FREQ | constant | |
| helptul | 4. (| r.ereccaru | - | | c | none | ÷. |
| yes | Ń | security. | ; | | i ~ | demanding | • |
| good | N. | accelety are tifund | : | | ; c | anick anick | - |
| safety | ~ | gratry | ÷ . | | ic | fore or more blo | |
| necessary | | secure | | | vic | aluisson as Jose | |
| good judgment | . . | good service | | | . . | Untair | . . |
| | - | love it | | vacation | 2 | neat | . |
| | : | fantastıc | . . | could be better | 5 | helpful | <u></u> |
| sensible | · | like | ŕ | none | 2. | hurried | Ļ, |
| limited | : | l like it | - | uniforms | 5 | up to the person | Ľ, |
| | | check | ť | uneven | . | drive | Ļ |
| | - - | Desition | | laundry | - | controls incom ; | - |
| coordination | - . | interesting | ` - -` | limited | | skillful | |
| zverage | | quick | ` - ` | noor | ` | needed | - |
| Dad | -' , | hetter | | few. | - | arrurate | • |
| complete | | fulfilling | : . | shoue success | | factor | |
| several | | | | | | | : . |
| right | | | | | - . | | |
| accurate | ſ, | ulagnose | <u>-</u> . | corree | | sale | |
| could be better | ÷ | nard work | - : , | tair at time | - · | burne | |
| service | ť | bay | <u> </u> | holiday | - - ' , | rewarding | -' , |
| service writers | - | pleasant | | necessary | - ' | рау | |
| needs OK | | happiness | , L | short | | necessary | |
| sunnestive | , - | experiencing | - | need more | ' | my own | . |
| fact | | pusy | | retirement | - | complete | - |
| | | well | | experiencing | . | fastesi | ' |
| on Derte | ÷ | more money | ÷. | getting better | <u></u> . | contradictive | – |
| odi ta potrance | : | challenging | - . | living | ť, | set | |
| | ÷. | courteous | ť | deals | . | speed is money | Ļ, |
| neat | | road check | . | Christmas party | - | varies with job | ÷ |
| criange for better experience | | good pay | - | parking | . | experience | ÷. |
| experience | ÷., | skill | - | never enough | Ļ | | |
| parking | <i>-</i> - | hands | ľ | helpful | - | work methods used on my job | doį . |
| naulan | ÷ | learnings | · | union | ÷. | work mathods used | FRFO |
| | | ability | • | | | MOLK INTERIOUS USED | |
| | | | | | | - | : |

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| 1 | 72 |
|---|----|
| | |

- -

| work methods used on my job (continued) tools knowledge | ~~~ | any time none one necessary my time | | OK weather money hours test drives | ┙╾┙┵┵╴ | seasonal flexible not so good hard work new house |
|--|--------|---|---------------|--|---|--|
| | ~~~~~ | anytime when needed plenty when necessary sparce sparce few donut after the job is done restful intermittent substiture | | waiting on parts equipment minimal tool management bad customer service writers necessary sometime time | ويويونون والويونونو | better bad circumstances honest sometimes not enough satisfied clean clothes more too much taken o Jt wife happy |
| | | helpfu: needed some times nune Face breaking as needed OK talk little whenever necessary tense | | decreases pay more time toos pollution coworkers more room parts department <u>my pay</u> | C C C C C C C C C C C C C C C C C C C | my opportunities to do <u>a variety of tasks</u> variety of tasks good helpful necessary none excellent rewarding |
| | | wonderful can't afford regular brake lcve coffee ttiink below average slow me down interference with mu inh | | good fair could be better varies not enough usually good commission too low | 」 - - - - | great great always severat sometimes yes plentiful not bored everything fair |
| | #4000+ | interference-job none average break down of part all day no hardly none interruptions many not often sometimes cooperation | 84 84 0 | low for work done low normal speed mot so bad work hard so so so so pace hard hours care average overtime sometimes bad | | varied help others expected skill exciting exciting cars cars cars cars knowledge knowledge from required beneficial |



| 1 | 27 | |
|---|-----|--|
| , | ~ ' | |

| | my opportunities to do | | my feltow workers | | long | 4. | fulfilling | - . |
|---|--------------------------------|--------------|--------------------|------------|---------------------------|------------|-------------------------------|--------------|
| | a variety of tasks | | my fellow workers | FRFO | fair | 4 | self-accomplishment | - |
| | | • | | | eight to five | с, | needed | ŕ |
| | | <u>.</u> | | | too early | 2. | apparent | - |
| | | <u>.</u> | | ŕ× | varv | 2. | appreciative | ـــ |
| | | _' , | | ŕ× | are oood | - | rewarding | ÷. |
| | demanded | <u> </u> | | ť c | eight to five thirty | | more | Ļ |
| | less boring | . | nice | | | : | l fixed it | . |
| | trust | - | kind . | Ń. | off | | iob done | |
| | | | good bunch | Ļ, | cond deal | - | demanded | |
| | freedom to use my own judgment | dgment | for themselves | | bood dear hard | | security | |
| | at work | | are good | <u> </u> | | - | aware | |
| | freedom-judgment | FREQ | sAng poog | - , | tirecome | | pride | - |
| | aood | Ö | neat | . | fillad | | raise | |
| | Decessary | 4 | some good some bad | | | :. | challenne | |
| | | ; c | companions | | tiring (| | | |
| | | vi c | heloful at times | - | few | <u> </u> | Detter | |
| | Indiau | i i | like to work with | • | experience | Ľ | ability | <u>.</u> |
| | experience | . | | : . | Asnq | ÷ | peace of mind | . |
| | abiltiy | 5. | | | eight to five | - | experience | - |
| | must | - | | | haopy | Ļ | knowledge | - |
| | none | - ' | diau of Brillin | | dirty | - | smart | - |
| | help others | - | neighbors | . | ethool | - | | |
| | some | - | average | | chocter bours | - | interaction with my coworkers | rkers |
| | | - | gossip | - | | | | |
| | open | | competitors | - | no Saturdays | - · | interaction-coworkers | FREC |
| _ | Occasionally | <u> </u> | strange at times | - | rushed | | good | Ö |
| | limited | - ' • | | · | 1 like | ŕ | friendly | 4 |
| | excellent | . | | | fun | Ľ, | fair | ິຕ |
| | Allensu | <u>, -</u> | neded | | nine-and-one-half | - | hetpful | 'n |
| | very good | | | | Po Sundays | ť | nerecarv | ~ |
| | confidence | <u>ن</u> ــ | complain | | friends | - | | ; c |
| | most of the time | - | neipers | - , | | ŗ | | í - |
| | at times | - | good meachanics | <u> </u> | faaling of accountishment | | mixed | -' - |
| | reat | - | protessional | <u>,</u> | | | yes | -' · |
| | true frue | - | old | - | NICK 1P | 1 | none | <u>-</u> , |
| | 2.2 | | trys | - | accomplishment-work | FREO | oK OK | . |
| | | | politics | ÷, | poof | 7. | fun | _ . |
| | | | stick together | - | money | | little | - |
| | speedy | | experienced | - | Vecessa Y | બં | average | ľ. |
| | | | Noung | - - | none | Ļ | If I can | - |
| | | -' - | work together | Ļ | work weil | - | t hope so | ÷. |
| | restricted | -' , | knowledneahle | : <u></u> | fair | - | time consuming | ÷. |
| | morale | - | block | | terter davi | | mixina | _ |
| | responsibility | ŕ | | | bene day | | interesting | |
| | good deal | - | | - | | | | |
| | sales | - | | | | <i>-</i> - | when necessiv | : . - |
| | trust | - | my working hours | | success | | and with some | |
| | good service | - | my working hours | FREQ | | | | |
| | rnoney | ť | ŏ | ġ | | | after work | ; - |
| | best | " | boog | 4. | | | | |
| | | | | | expected | ÷ | | : |

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| sometimes had | 1 | | | lack | | attitude | <u> </u> |
|-------------------------------------|----------|---------------------------|--------------|---------------------|--------------|----------------------------|--------------|
| | _ | experiencing | , | work | - | respecting | <u> </u> |
| | | liked | ÷. | work money | Ľ | friendly | - |
| | | fun | ÷. | satisfaction | - | rewarding | - |
| Suid of | - | | | like it | Ļ, | | |
| opportunities to help others in the | tin the | prestige of my job in the | 9 | time | ť | my job security | |
| community | | community | 1 | self-confidence | ŕ | my job security | FREO |
| community | FREO | prestige-community | FREQ | | . | poof | 4 |
| | | none | °. | | | none | ы. М |
| | í e | poof | 4 | challenging | ľ | fair | ų |
| | | good feeling | - | more | ľ | insecure | 2. |
| | , i c | trust me | - | challenge | ľ | necessary | 2. |
| | | low | - | experience | | I hope | - |
| | <u>.</u> | DOOL | | fun | - | none at all | - |
| | | XO | | enjoy | ÷ | performance | - |
| | Ŷ | some neonle | | learning | - | what I make it | |
| expected | <u>~</u> | evrellent | • | retirement | | limited | |
| try to | | highly | | looked up to | ` ` | clarant | • •- |
| large | | middle unner | | | | evellent | |
| no time | <u>,</u> | | | my prestige at work | | counted he herter | |
| sometimes | | fair | | my preside work | CBED | | |
| church | | mufidence | | my presuge work | | | |
| safety | | learned | | guorane everane | ŕc | knowladra | |
| are there | | rear ricu poorded | | average | v c | hanafite | ÷. |
| above average | | rected | <u>.</u> | experience | vi • | Sitianad | |
| most of time | | | - , | same as before | , " , | Store average | |
| many | ·• | heiptui | -', | none at all | ' , | more work | - - • |
| reputation | _ | looked up to | , î | OK | . | unknown | , . |
| useful | | proud | | workmanship | - ` | not adequate | - |
| demanded | | required | . | helptui | | health | _ |
| too many | · | helpful to them | - | low at times | - | skill | - |
| inviting | | exciting | _ . | tine | _ | speed | -' · |
| do a lot | | lacking | , | lacking | _ | insured | - · |
| seldom | | • | | guiding | | tuture | |
| meaningful 1 | _ | opportunities for | | medium | Ľ, | retirement | <u> </u> |
| friendly | _ | selt-fultilment | | front end man | <u> </u> | wanted | - |
| l do every day | | self-fulfillment | FREQ | transmition man | ÷, | age | - · |
| time | _ | poot | œ | CK CK | . | Triendly | - |
| when needed | , | monev | č | skill | Ļ | good company | - |
| often | | none | ۍ ۲ | good I think | - | needed | _ |
| rewarding | ÷ | rewarding | 2 | nice | - . | | |
| weicomed | • | OK | i | universal | ľ, | supervisor's evaluation of | n of |
| wanted | • | eniov what I do | | better | - | my work | |
| honestiv | • | DOOL | | getting better | ť | supervisor's evaluation | FRED |
| | • | Some | : _ | puppet man | | aood | |
| experience | • | often | : | needed | . | heloful | i ci |
| | • | limited | :. | improving | - | Decesary | i r |
| | | | | | | | 2 |

1.34

| my competence at work competence at work FREQ | | necessary 3. | æ | | ndir 2. muist 1 | | | helpful 1. | steady 1. | hard 1 | self 1. | very necessary 1. | varied 1. | nerves 1. | Tuittiling I. | more 1 | clean 1 | evident 1. | nabit 1. | interesting 1. | reliable 1. | | daydreaming at work | davdreamino-work FREO | | ē | times | seldom 2. | yes 1. | nell no 1. | passing time | | | bad babite | | | rou good | mate 1 | | pay cut 1. | too busy 1. | danger 1. | wishful 1. | immature 1. | mess up coworkers |
|---|--------------|-----------------|--------------|-----------------|-------------------------|---------------|---------------------|--------------|-----------|--------|-------------|-------------------|----------------------------|---------------|--------------------------------|------------------------|-------------|----------------|----------|----------------|-------------|------------------|---------------------|-----------------------|------------------------|-----------------------|---------------|--------------------|------------------------|------------|--------------|--------------|-------------|------------|----------------|-----------|------------|-------------|---------------|-----------------|--------------------------------|------------------------------|------------|-------------|----------------------|
| EIS | | с | Ċ . | | - E | | :_: | ء د | | | З | | > | C 4 | FREQ | | 5. | • | م | ` | 2 | | | | · | : c | | · | > - | £ | a : | = · | | | | | | | <u> </u> | | . # | | 5 | . <u>.</u> | |
| p | • | | • | | | n | • | | • | • | • | | ability to | | ŀ | | 2, | ., | | • | • | • | | | ovement | | _ | - • | · | • | • | • | • | • | | • | • | • | • • | - • | | - • | - • | • | |
| must be developed learning | dori't worry | speed | no snakes | uest correct | work on anything | wanted | safe | sometimes | try it | easier | knowledge | schooling | mv supervisor's ability to | handle people | sup-handle people | pood | fair | ð | helpful | questionable | art | poor | necessary | soft | needs some improvement | very good | Ves | very limited | hiev | required | experience | hot tempered | experienced | selling | time consuming | knowledge | necessary | stubborn | knowledgeable | Important | interiigent | wanted | know how | riaht | • |
| 1.2 | Ľ, | - ' . | <u> </u> | - : - | | | <u>-</u> | | | - | | : <u>-</u> - | Ļ | • - | ' - | | | | ÷. | : | : _ | - | Ĩ, | ÷ | | | | FREQ | 11. | 4 | r, | N 0 | · - | | | | - - | | | ; <u> </u> | - | - | - | | |
| good none at all | fair | politics | slim | pay hed here | oau nere challanoine | creations | | averade | work hard | | not acod | some | hoping to own business | plentiful | not inuch | reiprui | werv little | in a few vears | work | speed | work harder | need more school | few | planning | | my self-confidence at | work | my self-confidence | poop | necessary | heipful | training | experience | | | | the best | | | could be better | fair | some jobs | evident | | |
| of my | 0 | i' | ` - ` | - | . | . | . | <u>,</u> | | -' , | - • | - • | -' - - | <u>-</u> | ervisor | FREQ | œ | ю. | 'n | 5. | , 2 | | . | | . | . | , | - · • | -' - | | - | - | . | - | <u>_</u> . | - | | | - ' | | onotion | n FREQ | 5. | | |
| supervisor's evaluation of my work (continued) | none | could be better | 1 | | | above average | sometimes excellent | never enough | | | money talks | | | | interaction with my supervisor | interaction-supervisor | - | | | | | very very poor | | cooperation | | compatible | | | Mainteu halafiilaan | _ | | | | | | | | environment | | | my opportunities for promotion | opportunities-promotion FREQ | | | |



| 0 |
|----------------------------|
| FRIC |
| Full Text Provided by ERIC |

1.36

| woman 1. | <u>-</u> - | equipment used FREQ | | - ' • | pusher |
|------------------------|--------------|--------------------------|-----------------------|----------------|--------------------|
| unsatisfactory | - | fair | gaskets | | nice guy |
| office airls | : | | lubricants | ľ | adequate |
| bad work | - | Decessor 3 | | | Apoou |
| airls | : . - | increase 9 0. | moral "rightness" of | | do my b |
| | ÷., | bolofiil 3 | my job | | nice |
| time to leave | | | moral "rightness" | | experien |
| | | | fair | | Fred |
| | <u>.</u> | Dencn 2. | | ŕc | Fred Pat |
| | | my tools 1. | doou | ri e | ability |
| my opportunities to do | | not adequate | necessary | . | needs mr |
| challenging work | | OK 1. | good when work's good | od J. | |
| challenging-work | FRED | my own 1. | poor | - | |
| good | , D | modern 1. | self-conceit | Ļ | |
| great | 4 | new 1. | heeded | - ' | |
| always | 2. | expensive 1. | tine | _ , | Mites |
| must | _ | broken 1. | honest | - | Doly Doly |
| sometimes | | not furnished 1. | hard work | - | |
| none | ÷ | useful 1, | helping | - | |
| daily | : | cleaning solvent 1. | peace of mind | , | |
| limited | - | outdated 1. | helps | . | likeable |
| fair | : _ | could be better 1. | bad when work's bad | - - | understa |
| do my best | | old fashioned 1. | expected | , | |
| each iob | - | better upkeep on cars 1, | not always | - | |
| helps | | limited 1. | evident | . . | |
| many | | up to date 1. | work | _ . | irear |
| confidence | - | dangerous 1. | safety | ' · | |
| DOOL | , | accurate 1. | give | ' | |
| necessary | , " | investment 1. | performance | - - | |
| varied | : <u></u> | tools 1. | helpful | , | bunok |
| work hard | - | power tools 1. | care | - ' ' | |
| every day | | air 1. | overcharge | ` | SUNKS dt |
| experiencing | - | inadequate 1. | possible | - ' , | arer t indenend |
| every job is challenge | - | not enough 1. | Vac | . | |
| knowledge | Ļ. | speed 1. | right | ' . | 1 |
| heipfui | - | special tools 1. | recognition | Ľ | |
| fun | - | water 1. | | | company |
| fast | ľ | safe 1. | my supervisor | | |
| liked | . | speedy 1. | my superviscr | FREQ | |
| ability | J, | need more 1. | helpful | ۍ | 5 |
| unlimited | 1. | valuable 1. | friendly | 4 | |
| better | - | | poof | 2. | Clean |
| learning | - | rack]. | friend | 5 | |
| a lot | - | grease | fair | 2 | anne. |
| faster | ľ | abundance 1, | boss | 2. | changeab |
| | | better job | Š | 2. | |
| | | creeper 1. | emart | ç | Tellar Ton |
| | | | | i | |

unks at times alert independent ompany policies on my job oany policies FREO 3. 3. 2. 2. Jatton / more experience stand standing gent know it ail le standing ises e writer : through Isive needs replaced able orced able ace best te V

| - | | t the men at the test | time loss |
|---|-------------------------|---------------------------------------|------------------------------|
| company policies on my job | limited I. | wanted 1 | union 1 |
| | orten 1. | knowl dge | foreman |
| medicare I. | | comp lete | necessary 1. |
| liberal I. | | want 1. | OK 1. |
| some good | | Indifferent | |
| lunch 1. | wasted | proud 1 | my control over work nace |
| practiced 1. | chailenged | slips | |
| weak 1. | more l. | schooling | control of pace FHEU |
| unfair 1 | necessary | | none 4 |
| strict 1 | taxing 1. | | good 3 |
| do the job | experience 1. | | necessary 3. |
| improvement 1. | accepting 1. | | slow 2. |
| tight 1. | speed 1. | | speed 2. |
| good lob 1. | every day 1. | | partial 1. |
| understanding 1. | learn 1. | | complete 1. |
| fast 1. | common sense | great | as fast as I care 1. |
| some bad | improved 1. | • • • • • • • • • • • • • • • • • • • | weak 1 |
| auittina 1. | reitable 1. | self-contidence | my own |
| stratch 1 | exercise t. | : | mine 1. |
| | wanted 1 | hendling of grievances | tota |
| | | on m / job | |
| help | recognition for my work | handling-grievance FR 20 | had |
| ited in the second s | | | |
| userur | | aood 2. | |
| | | bad 1. | sometimes |
| | | very poor | sometimes |
| | | none 1. | |
| booof.to 1 | | occasional 1. | ausolute parte department |
| | money 2. | seldom 1. | controls income a 1 |
| Lindows 1 | | fairly 1. | bo curro of occurro of |
| | | work | |
| | | chow 1 | |
| | training 1. | tirina 1. | dafir tadu |
| | earned | nersonally 1. | |
| | | accurate 1. | creail f |
| | | service writer | casual casual |
| use of my abilities at work | occasionally 1. | fair 1 | test drives 1. |
| | | talk 1. | service writers |
| T ADIIITIES | | helpful 1. | |
| good | | equal'y 1. | |
| all | | unfair at times 1. | |
| | | come backs 1. | |
| helptul Z. | | management 1. | |
| Yes | the herter | manager 1. | |
| always 2. | | needed 1. | |
| learning 2. | severation 1 | wai, ted 1 | |
| must | | rationally 1. | |
| | | yood at times 1. | |
| universal | *- ent | | |



1.37

APPENDIX B-4

Experiment II: Computer Data Processors' Response Distribution, by Stimulus Phrase and Frequency



| топеу 7. | - | rewarding | DOFING D. D. | | | | | ing | | ing | | | enjoyable 3. | | | | | • | 2 | | | | ability 2. | important | | | fulfilling 2. | | 76 | | | nce | friende | 6 | | skill 2. Pay 2. | 3 | us ringe benefits | us ringe benefits ringe benefits FF | unge benefits inge benefits uf | unge benefits unde benefits underefits | unde benefits Inge benefits Ince | unge benefits Inge benefits Jf Ince ment | unge benefits inge benefits uf ment cn | skill pay my fringe benefits my fringe benefits helpful good insurance retirement vacation many |
|---------------------|------------------|-----------|-------------------------|-------------|------------|--------|----------|----------|--------------|-----------------|---------------|----------|--------------|------------|-----|------------|-----------------------|--------------|------------|------------|-------|----------|------------------------------|-------------------|-----------|-----------------|---------------|---------|-----|-------------|-------|-------------|-----------|------------------|-----------|--------------------|----------|----------------------|---|--|--|--|--|--|--|
| × | Ľ. | 10. | 0 U | r, ⊿ | . 4 | 4. | ri | ų | .2 | | | 2. | 2. | i | 1 C | v (| v i (| v i (| ' r | <i>i</i> c | 7 | | work hethods | FREQ | ۍ ۲ | ، <u>ت</u> ا | ທ່ ເ | ດີດ | | ; ci | | 2. | 2. | | c | ŗ | ю. | י ה הי | <u>, u u u u</u> | 00000 | | N N N N N N | N N N N N N | N N N N N N | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| my overtime work | my overtime work | none | necessary | unnecessary | infrequent | no pay | not much | money | compensation | not compensated | not necessary | rare | important | worthwhile | | | heiptul | more money | nome | | | | my control over work hethods | control of methoc | none | good | necessary | heipiui | | reasonable | speed | average | important | little | knowledge | | more | more fair | more fair experience | more faır experience training | more fair experience training safety | more fair experience training safety | more fair experience training safety | more fair experience safety my job | more fair experience training safety my job mv iob |
| | FREQ | ő. | 4.4 | 1 | ິຕ | с, | 2. | 5 | 5 | 2. | c i | 2. | 5. | 1 | | | | CEREO | 16 | 2 | : c | ຳດີ | ່ທີ | ້ຄ | 4 | 4 (| ກໍ ເ | າ ຕ | | i | 2. | . 2 | 2. | 2, | 2. | • | , | ici | 100 | างกุงร | างงุงง | า่ดด่ด่ด่ด่ | างกล่างกล่าง | าดถุงกุงกุง | าดกลุ่งกล |
| the union on my Job | αοι ση το μο | none | non-existent halnful | unnecessarv | needed | good | close | unneeded | not good | not wanted | not needed | benefits | necessary | - | | | my working conditions | | | fair | clean | oleasant | Important | enjoyable | excellent | could be better | improving | crowded | | comfortable | safe | unpressured | pressure | relax e d | poor | necessary | | light | light friendly | light friendly morale | light friendly OK | light friendly morale OK warm | light friendly morale OK warm space | light friendly morale OK warm space | light friendly morale OK warm space |
| | FREQ | Ľ, | ກ່α | ວ່ ແກ່ | L) | 4. | e. | e. | 5 | 5. | 2. | 2. | 5 | 2 | i | | | THEO | <u>ס</u> ס | | | ວ່ແ | 5 4 | 4. | 4. | 4. | ri o | ກ່ ເ | ກ່ຕ | , (| i ci | ~ | ~ | ' | , , | ~ | | 2. | ~~~ | ~~~ | ~ ~ ~ ~ ~ | ~~~~ | ~~~~~ | ~~~~~~ | ~~~~~ |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



1.39

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| | | tant ed oging og 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, | m to use my own ent at work | iry Ynagment-tr | | ty time | w workers w workers |
|--|---|--|------------------------------------|--|---|---|--|
| none plentiful fair | rnany constantly often desired | important boring challenging learning daily enjoy | | good good limited belofiel | resprun yes ability experience none adequate | confidence most of the t great satisfying important encouraged responsibility fead | group trust trust my fello helpful friends nice |
| 6 0 0 0 | N N N N N | 00000 | FREQ 14. 9. | - 0 0 4 4 | + m n n n n n | 10000 | н Н Н П С С С С С С С С С С С С С С С С С |
| coworkers sometimes phones little | personal problems average bad | supervisor noise angry minimum unnecessary | my pay good fair adenuate | auequate could be better not enough inadequate averane | average better is good varies sufficient low | amplc necessary satisfied security my opportunities to do a variety of tasks | variety of tasks good helpful necessary excellent interesting limited experience knowledge unlimited great |
| | | ~~~~~~~~~ | 1000 | FRED | | r ๗ ๗ ๗ ๗ ๗ ๗ ๗ ๗ ๗ | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| friendly fair OK | vary neatness organization norm a l | rnodern improvement tools knowledge necessary training supervision | accuracy important easy | my coffeebreaks my coffeebreaks | snor necessary helpful good needed | rest talk all day ånytime fair fun enjoy | enough useful friends enjoyable unsupervised think interference with my job interference-job none |
| ຕໍ່ຕໍ່ຕໍ່ຕ | 5 0 0 0 0 0 | ดดูดูดูดูดูดูดูดูดูดูดูดูดูดูดูดูดูดูดูด | | с FREQ 11. 6. | 0 4 4 m m m | เด่ด่ด่ด่ด่ด่ด่ด่ | K job FREC 3.5.5.6 |
| OK None Inportant | are good medical insurance evcellent | hospitalization above average could be better great sick leave uniforms | walk work pace used on my job | work pace used fast steady | vow varies quick moderate average | rapid speed accurate hurried confusing important pressure | easy rushed work methods used on my job work methods used FR efficient 6 good 3 speed 3 |



| my fellow workers (continued) | feeling of accomplishment at work | t at work | opportunities to help others | irs | opportunities for self-fulfillment | filment |
|--|-----------------------------------|-------------|---|------------|------------------------------------|------------|
| cooperative 4. | accomplishment-work | FREQ | in the community | 1 | self-fu!fillment | FREG |
| understanr'ing 4. | pood | 14. | help others - community | FREQ | goog | <u>4</u> • |
| Э́с | necessary | Ð. | many | ഹ് | necessary | 4.4 |
| unconcerned 3. | great | 4 | bood | 4 | many | 4 0 |
| | none | <i>с</i> і, | knowledge | 4 | none | v (|
| | pride | ო | helpful | 4. | unlimited | ri (|
| a | monev | i ci | rewarding | 4 | great | n, i |
| kind 3 | | 2 | none | с. | important | ຕ່ |
| aldeepla | | i 0 | often | က် | money | ų |
| | confidence | in | experience | ю. | rewarding | e. |
| | som atimes | ín | necessarv | с, | experience | ы |
| | | i 0 | Service | 2. | poor | 6 |
| | | i 0 | no time | 2 | lımited | ~ |
| | | ic | fair | | few | c,i |
| ole | tultiling | vi o | | íc | little | 2 |
| | accurate | N I | some | vi c | catictaction | ic |
| experienced 2. | worthwhile | 5 | limited | N O | | 4 C |
| | | | sometims | . . | Autop | i c |
| tent | | | concern | 5 | varies | vio |
| | interaction with my | | useful | 5 | open | 7. |
| tertreahte | coworkers | | plentiful | 2. | | |
| | | | time | 2 | | |
| .2 You have a set of the set of t | Interaction-coworkers | L HEG | ability | 5 | mv prestige at work | |
| | 0000 | <u>0</u> | willing | , C | | |
| | friendly | 13. | B | í | my prestige-work | |
| | helpful | 10. | | | good | |
| | necessary | <u>1</u> 0. | | | little | പ് |
| my working hours | cooperative | 4 | prestige of my job in | | average | 4 |
| my working hours FRFO | | ່ຕ່ | the community | | low | ຕ່ |
| | fair | i m | prestige community | FREQ | helpful | с, |
| - | important | | none | ġ | adequate | ~ |
| | friende | i ~ | high | 5. D | experience | 2. |
| | | ; c | | <u>ر</u> | normal | ~ |
| | | י ה | entrouting the second se | 4 | Derconality. | in |
| OK OF | anchane | r' o | | : c | | ic |
| pusy 6. | enjoyable | י י | excellent | i c | | i |
| eight to five 5. | relaxing | m' | unimportant | i e | | |
| satisfying 3. | OK | . | average | . i (| | |
| varv 3. | easy | ~ | fair | 6 7 | my job security | |
| eriovable 3. | excellent | . | little | . . | my job security | FREQ |
| tirina 3. | infrequent | 5. | low | ~ | pood | 13. |
| standard 2. | interesting | 5 | proud | 5. | important | σ |
| accentable | eniov | 2. | adequate | 4 | Deressarv | œ |
| filled 2 | | | unknown | ~ | evraliant | i 4 |
| too early 2 | | | satisfying | 5 . | | : e |
| | | | helpful | ~ | fair | ; r |
| necessary | | | unconcerned | ~ | 1P1 | 5 |
| *• • • • • • • • • • • • • • • • • • • | | | necessary | 2. | | |
| | | | | | | |

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

÷

| | | 136 |
|---|---|-----|
| ٣ | · | 1 |

| Intercute 2 could be batter 2 condide batter 2 | Insecure Immited above average | | | 2. | could be better | 'n | satisfying | ¢ |
|--|--------------------------------------|---------|----------------------------|------------------|--------------------------|------------|------------------------|--------------|
| efficiencies 2 forenti | limited above average | | detting better | i | | Ń | | |
| exercise 2 bit miled fair serving serving 2 bit serving fair serving 2 bit serving fair ser | above average | | honest | 2 | knowing | , , | confidence | ~ |
| Contract Circl Description Description </td <td></td> <td></td> <td>fair</td> <td>6</td> <td></td> <td>i c</td> <td>efficient</td> <td>ر د</td> | | | fair | 6 | | i c | efficient | ر د |
| potenti 2 imited 2 exponsible constraints 2 devideming at work constraints 2 devidevideming work constraints 2 | | | kind | ic | | vi c | | i |
| Andarty Description Constraints Constraints Analytic and the promotion The optimities for promotion The optimities for promotion The optimities for promotion Answer seal attion of the promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor's evaluation The optimities for promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor's evaluation The optimities for promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor's evaluation The optimities for promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor's evaluation The optimities for promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor The optimities for promotion The optimities for promotion The optimities for promotion The optimities for promotion Visor The optimities for promotion The optimities for promotion The optimities for promotion Visor The optimities for promotion The optimities for promotion The optimities for promotion Visor The optimities for promotion The optimities for promotion The optimities for promotion The o | inimocrant and | | limited | ic | | v c | davdreaming at work | |
| Marking Description Description Description Description Description Description Visor's evaluation FRE0 two visor's evaluation the visor'so visor'so visor'so visor'so visor'so visor'so visor's | | | | i | ainisiindsai | ï | | |
| Markability Mark | recon | vic | | | | | daydreamıng·work | FREQ |
| Wroof services for pornuties pornuties pornuties for pornuties pornuties pornuties pornuties for pornuties pornutipor pornutipor pornuties pornuties pornuties pornutipor pornuties | | ŗ. | | | | | rone | 9. |
| Norvol sent ation of box Condition provide people box Condition provide people box Condition provide box Condition provide box FRE commensation box commensation box <thcommensation box commensation box<td></td><td></td><td>my opportunities for promi</td><td>oticn</td><td>my supervisor's ability</td><td></td><td>QU</td><td>5.</td></thcommensation | | | my opportunities for promi | oticn | my supervisor's ability | | QU | 5. |
| visor's earlie ation of ook more book supervisor handle people FREQ no free interleant visor's earlie ation ook 13 14 4 4 4 4 visor's earlie ation ook 13 14 15 11 boredom visor's earlier 13 14 15 11 boredom visor's earlier 13 14 13 15 11 boredom asiny 5 ability 2 poor 3 evy little and 2 poor 3 evy little 11 boredom ability 2 consiste 2 poor 3 evy little ability 2 consiste 2 poor 3 evy little ability 2 many base 3 action 3 action ability 2 teachait 3 action 3 action ability 2 teachait 3 action action ability 2 teachait 3 action action ability 2 teachait 3 action action atin 2 teachait 3 | | | Opportunities-promotion | C B E C | to handle people | | sometimes | 5. |
| Nonsols Nonsols Nonsols Nonsols Nonsols Nonsols Nonsols orising 5 hopeful 7 point 1 horeelom visors revaluation FRE0 event 1 horeelom 1 horeelom visors revaluation 7 point 2 geal nimeture 1 horeelom visors revaluation 7 point 2 revery good 3 revery good 3 revery mostion asing 5 hopeful 2 revery good 3 revery good 3 revery mostion asing 5 hopeful 2 revery good 3 revery good 3 revery little asing 0 contrant 2 remostion 3 revery little point 2 remostion 3 revery little revery little point 2 remostion 3 revery little revery little point 2 remostion 3 revery little revery little point 2 refaulty 3 revery little revery little point 2 refaulty 3 revery little | | | | | sunervisor-handle neonle | | no time | ۍ ا |
| ook state s | supervisor's evals ation of | | | ν [.] α | | | seldom | ie |
| visor t evaluation FRE0 Tew Term Term ui 7:3 nersary 6 nersary 6 nersary asry 5 ability 2 nor often 3 nersary contract 2 nor often 3 nor often 3 nor often contract 2 nor often 3 nor often 3 nor often contract 2 dequare 2 anot often 3 nor often contract 2 dequare 2 anot often 3 nor often contract 2 dequare 2 anot often 3 nor often contract 2 dequare 2 anot often 3 nor often are are are are are are are contract 2 <td>my work</td> <td></td> <td>Dood</td> <td>4.</td> <td></td> <td><u>.</u></td> <td></td> <td>ć ი</td> | my work | | Dood | 4. | | <u>.</u> | | ć ი |
| victors recessary 6 more and anon ul 7, noisible 2 recessary 6, more and anon asry 5, hopeful 2 recessary 6, more and anon asry 5, hopeful 2 recessary 6, more and anon reart 1 1 noisible 2 recessary 6, more and anon reart 1 2 more and anon 3 rev little 3 more and anon good 2 more and anon 3 rectal 3 more anon good 2 rectal 3 more anon more anon more anon good 2 rectal 3 more anon more anon more anon good 2 rectal 3 more anon more anon more anon good 2 rectal 3 more anon more anon more anon good 2 rectal 3 more anon more anon more anon atter 2 rectal 3 more anon more anon more anon atter 2 rectal 3 more an | 1 | | tew | с, | Tair | 11. | | ว่ด |
| Image: Second | visor's evaluation | FREO | fair | 2 | necessary | Ö | boredom | r. |
| ul 7, possible 7, possible 7, possible arvinossible and 7, possible arvinossible and 7, possible arvinossible arvinossible and 7, and 2, poor and 2, and 3, | poot | 19. | nil | ic | great | G | infrequent | r, |
| Sary 5. Nopelue bity 5. Not often bity Lend 2 Rany 2 Nopelue 3 not often bity 3 not often bity Land 2 Rany 2 Rany 3 not often bity 3 not often bity Line 2 Rany 2 Rany 3 not often bity 3 not often bity Line 2 Rany 2 Randuten bity 2 Randuten bity 3 are Line 2 Randuten 2 Randuten 2 Randuten bity 3 are Line 2 Randuten 2 Randuten 2 Randuten 3 are Line 2 Randuten 2 Randuten 2 Randuten 3 < | helpful | | merihte | ic | ŭnor | i r | impossible | 5. |
| any 5 miprovide trant 4 pay 5 miprovide trant 5 moor often trant 5 moor | fair | | | vi c | | i r | easy | 2 |
| rtant 4, painty 2, improbable 2, tactful 3, improbable 2, twork 2, 0, K and 2, the feature 2, tactful 3, improbable 2, twork 2, 0, K and 2, the feature 2, tactful 3, improbable 2, the feature 2, tactful 3, improbable 2, the feature 2, tactful 3, improved 2, the feature 2, tactful 3, improved 3, the feature 2, tactful 3, improved 4, tactful 3, improved 4, tactful 4, the feature 2, tactful 3, improved 4, tactful 4, the feature 1, work 1, the feature 1, work 1, the feature 1, the feat | | | | N I | tery good | | very little | in |
| rtant 4, box 2, ok mortant 3, box 2, ok mortant 3, box 2, or box 2, trienduale 2, trienduale 2, trienduale 3, nor of box 2, or box 3, or box 4, or | | | ability | r. | | ก่ (| | ic |
| rant 2, work 2, or work 3, or wor | | | Aed | , | important | m. | | vic |
| lett 2 improbable 2 tactful 3 never good 2 knowledge 2 triendy 3 not offen good 2 knowledge 2 triendy 3 not offen good 2 knowledge 2 bad 3 not offen giative 2 bad essy 3 not offen ate 2 bad 2 bad 3 not offen ate 2 bad 2 bad 3 not offen ate 2 bad 2 bad 3 not offen ate 2 desired 2 bad 2 pad ate 2 desired 2 bad 2 pad ate 2 desired 2 bad 2 pad ate 2 bad 2 pad poportunities to do ate 2 atalining 2 pad pootunities to do ate 2 atalining 2 pootunities pootunities ate 2 mot offer 2 pad pootunities ate | important | | work | . | Š | с. С | Asna | vio |
| lent 2. many 2. adequate 3. triendly 3. training 3. triendly 3. training 3. tr | 200f | | improbable | 2. | tactful | ຕ່ | never | . Z |
| good 2. knowledge 2. triendly 3. too busy statent 2. easy understanding 3. nor opportunities to do state 2. desired 2. easy 3. rate state 2. desired 2. challenging work 3. may coportunities to do ate 2. desired 2. challenging work 3. may coportunities to do ection-supervisor Ection-supervisor 20. my self-confidence at work 2. imited 2. challenging work atom 2.0. my self-confidence at work 2.1. competitive 2. imited atom 3. my self-confidence at work 2.1. competitive 2. imited atom 3. my self-confidence at work 5. adequate 2. imited atom 3. my self-confidence at work 5. adequate 3. important atom 3. my self-confidence at work 5. adequate 5. adequate atom 3. my self-confidence at work 5. immortant 4. immortant atom 3. my se | excellent | | many | in | adequate | , M | not often | 5. |
| clainer 2 accuracy clainer 2 understanding advancement 3 Tate ate 2 bad 2 understanding 3 Tate ate 2 bad 2 understanding 3 Tate ate 2 bad 2 understanding 3 Tate ate 2 capable 2 capable 2 challenging work etucation 2 capable 2 challenging work 3 etucation 2 capable 2 challenging work etucation 2 objective 2 padeteree attion 0 my self-confidence at work 1 minted attion 0 my self-confidence at work 1 minted attion 0 my self-confidence at work 1 montant attion 0 my strong 2 important attion 3 fain poord 2 important attion 4 fain fain fain fain attion 3 fain poord 2 fain attion 3 fain poord 2< | ery good | | knowledge | í | friendly | ຕັ | too busy | 5. |
| criative 2 bad stranding a vancement 2 bad be served at experience 2 capable 2 can be | nfrequent | | accuracy | ic | easy | τ, | rare | ~i |
| ate 2. desired 2. bad 7. my opportunities to do advancement 2. training 2. challenging work advancement 2. more 2. more 2. more advancement 2. more advancement 2. more 2. more 3. more advancement 2. more 3. more 3. more advancement 2. more 3. more 3. more advancement and 3. experience 2. more 3. m | ppreciative | | had | ic | understanding | 3 | | |
| ate 2. experience 2 capable 2 capable 2 challenging work advancement 2 training 2 challenging work imited 2 calar 2 training 2 challenging work inted 2 calar 2 experience 2 good celoration supervisor FREO advancement 2 training 2 challenging work imited 2 calar 2 many strong 2 many advance 4 knowledge 2 many important advarse 4 knowledge 2 many strong 2 many strong 2 many strong 2 many strong 2 many strong 2 many advarse 4 knowledge 2 many important ative 3 many strong 3 many strong 3 many strong 3 many strong 2 many any set iconfidence at work advarse 4 knowledge 2 many important ative 3 many ating 3 many strong 2 many ator a many strong 2 many any set iconfidence at work advarse 4 knowledge 2 many ator a many a | onest | | decired | i c | bad | in | my opportunities to do | |
| advancement 2 training 2 challengring work action-supervisor EREO 2 inited 2 challengring work action-supervisor EREO 2 inited 2 good asav 9 mv self-confidence at work 2 important asav 9 mv self-confidence at work 2 important asav 9 mv self-confidence at work 2 important asav 1 6 good 21. competence at work asav 3 mv self-confidence 7 mercesary atant 3 experience 5 fair atant 4 helpful 5 fair artible 2 adequate 3 frequent artible 2 </td <td>ccurate</td> <td></td> <td>experience</td> <td>v r</td> <td>capable</td> <td>ín</td> <td>challenging work</td> <td></td> | ccurate | | experience | v r | capable | ín | challenging work | |
| action with my supervisor Experience 2 not good 2 great action with my supervisor FREQ 2 not good 2 great action-supervisor FREQ 20 my self-confidence at work 2 great any 3 my self-confidence at work 21 competence at work 21 my self-confidence any any 21 competence at work 21 monortant and any 21 competence at work 21 any and and 3 fan 3 fan and adequate 5 fan any and and 3 fan ani and and 3 fan ani and 3 fan 3 fan | | | | N I | training | ic | abottonaine | |
| education 2 inversion 2 inversion action-supervisor FREQ 2 investigation 2 great action-supervisor 20 my self-confidence at work 2 important 3 arrant 8 my self-confidence at work 2 important 3 arrant 8 my self-confidence at work 2 important arrant 3 my self-confidence at work 2 important arrant 4 knowledge 7 necessary 2 important arrant 3 recessary 8 good 2 important arrative 3 recessary 8 good 2 important arrative 3 recessary 6 fair 4 none arrative 3 recessary 5 fair 4 none arrative 3 recessary 5 fair 3 satisfying arrative 3 recessary 5 fair 4 6 6 arrative 3 recessary 5 fair 3 satisfying arrative 3 recessary | | | advancement | 7 | | vi r | | L HEG |
| action with my supervisor limited 2. experience 2. great action-supervisor 20. my self-confidence at work 2. important 2. important arran 8. my self-confidence at work 2. important 2. important always 8. my self-confidence at work 2.1 competence at work infrequent always 3. well-confidence 2.1 competence at work 1. infrequent always 3. helpful 5. adequate 2.1 onomedge atant 4. knowledge 7. mecessary 2.1 varied atant 3. helpful 5. adequate 4. and atantive 3. fair 4. none 3. frequent atantive 3. fair 4. none 3. frequent atantive 5. fair 4. fair 4. fair 5 | | | education | 6 | | Ń | goog | . |
| Betton with my supervisor FREQ aary 20. aary 21. aary 21. aary ary self-confidence at work aary 21. aary ary self-confidence at work aary 21. aary ary self-confidence at work aary 21. aary 21. aary 21. areessary 8. aranding 3. aranding 3. aranding 3. aranding 3. aranding 4. aranding 5. aranding 3. fragenate 4. aranding 5. | | | limited | 6 | experience | ~ | great | 9. |
| action-supervisor FREQ calm 2, many sary 9 my self-confidence at work 2, important ul 8, my self-confidence at work 7, recessary 2, important ul 6, good 21, competence at work 7, recessary utant 3, helpful 5, adequate 21, nowledge atant 3, helpful 5, adequate 4, none atant 4, knowledge 7, recessary 5, adequate atanting 3, experience 5, fair 4, none atative 3, important 4, helpful 3, frequent atal 3, experience 4, helpful 3, frequent atative 3, important 4, helpful 3, frequent atative 3, important 4, helpful 3, frequent ation 2, average 3, frequent 3, frequent ation 2, average 3, freque | Iteraction with my supervisor | | | | objective | 5. | limited | 2 |
| 20. <u>my self-confidence at work</u> always Strong 2. important ul 8. my self-confidence at work EREQ <u>my competence at work</u> infrequent ul 8. my self-confidence EREQ <u>my competence at work</u> infrequent ilv 6. good 21. competence at work EREQ knowledge infrequent 3. helpful 5. adequate 4. nowledge 3. helpful 5. adequate 4. none 3. frequent atait 3. experience 5. fair 4. none atible 2. none 3. frequent 3. frequent atible 2. tairing 4. helpful 3. frequent atible 2. tairing 3. tendence 4. none atible 2. ability 3. tendence 3. tendence atible 2. aberlance 3. tendence 4. none atible 2. ability 3. tendence 3. tendence atible 2. ability 3. te | | REO | | | calm | 2 | many | 4 |
| sary 9 <u>my seti-contidence at work</u> ul 8 my self-confidence <u>FREO</u> <u>my competence at work</u> 10 6 <u>900d</u> 21. competence at work <u>FREO</u> infrequent 11 nacessary 8 <u>900d</u> 21. nacessary 12 nacessary 6 varied 13 helpful 5 adequate 4 sometimes 14 none 15 raining 4 none 16 sometimes 17 necessary 6 none 18 my setification 19 setification 19 setification 19 setification 19 setification 19 setification 19 setification 10 s | , pod | 20. | | | strong | 7 | important | 4. |
| uiBmy self-confidenceFREQmy competence at workinfrequentIly6good21.competence at workFREQknowledgeItant4.knowledge21.competence at workFREQknowledgestanting3.knowledge7.necessary5.adequate21.necessarystanding3.knowledge7.necessary5.adequate21.variedstanding3.important4.helpful5.adequate4.sometimesataitie3.fair4.helpful3.fair3.funatible2.performance4.helpful3.fun3.funatible2.performance4.helpful3.satisfyingfunatible2.stair3.inportant4.fast3.funatible2.stair3.stair3.fun3.funatible2.sometimes3.inportant3.fun3.funatible2.starining4.fast3.fun5.adequentatible2.starifier3.fast5.adility5.adilityatible2.storeflent3.fast5.adility5.adilityatible2.storeflent2.storeflent3.fun5.adility | ecessary | σ | my self-confidence at work | | | | alwavs | c. |
| Ity6. good21.competence at workFREQknowledgertant4.necessary8.good21.necessaryrtant3.helpful5.adequate4.variedstanding3.experience5.fair4.nonestanding3.frair4.none3.frequentatible5.fair4.none3.frequentatible2.performance4.fast3.frequentatible2.performance4.fast3.satisfyingge2.training4.fast3.satisfyingge2.sometimes3.inportant4.fastatible2.performance4.fast3.satisfyingge2.sometimes3.inportant2.anilityatible2.satisfying3.satisfyingge2.satisfying3.inne3.bood2.satisfying3.satisfyingbood2.satisfying2.anility3.bood2.satisfying2.anility3.bood2.anility3.inportant2.bood2.anility3.bood2.bood2.anility3.inportant2.bood2.anility3.bood2. <tr< td=""><td>elpful</td><td></td><td>fidence</td><td>FREQ</td><td>my competence at work</td><td></td><td>infrequent</td><td>с,</td></tr<> | elpful | | fidence | FREQ | my competence at work | | infrequent | с, |
| rtant 4. necessary 8. good 21. necessary rant 4. knowledge 7. necessary 5. adequate 7. necessary 5. fair standing 3. experience 5. fair 4. none arative 3. important 4. helpful 3. frequent atble 2. performance 4. fast 3. frequent performance 4. fast 3. satisfying be excellent 3. high 2. knowledge 2. unlimited high 2. knowledge 2. unlimited | tendly | | | 21. | competence at work | | knowledge | ŝ |
| rtant 4. knowledge 7. necessary 5. varied 7. none 2. fair 4. none 3. fair 7. none 5. none 5. fair 7. none 5. none 5. fair 7. none 5. none 5. none 5. fair 7. none 5. none | | | necessary | 8 | | 21-12 | necessarv | i m |
| adequate 5. adequate 5. adequate 5. adequate standing 3. tair 5. adequate 4. sometimes arative 3. important 4. helpful 3. frequent arible 2. performance 4. helpful 3. fun arible 2. training 4. helpful 3. fun arible 2. training 4. excellent 3. ability be 2. training 3. high 2. ability none 3. high 2. unlimited 3. high none 2. worage 2. unlimited 3. high | nortant | | knowledne | ir | | | variad | ; r |
| standing 3. experience 5. fair 4. mone stative 3. important 4. helpful 3. frequent atible 2. performance 4. fast 3. training ge 2. training 4. excellent 3. like more sometimes 3. high 2. wowledge 2. unlimited high 2. knowledge 2. unlimited | | | helpful | : c | | c - | cometimes | , c |
| standing 3. superience 5. fair 4. none article 3. frequent article 3. important 4. helpful 3. frequent artible 2. performance 4. fast 3. satisfying 9. confidence 2. ability 3. experience 3. confidence 1. sometimes 3. high 2. sometimes 2. average 2. unlimited high 2. knowledge 2. unlimited | | | | ว่น | auequate | 4. | | i |
| arative 3. important 4. none 3. frequent nal 3. important 4. helprul 3. fun atible 2. performance 4. fast 3. satisfying ge 2. ability 3. experience 3. confidence high 2. sometimes 3. high 2. average 2. unlimited high 2. important 2. important 5. important | nderstanding | | experience fair | | taır | 4. | none | |
| nal 3. Important 4. helpful 3. fun atible 2. performance 4. fast 3. satisfying ge 2. training 4. excellent 3. like more ge 2. sometimes 3. experience 3. confidence jood 2. sometimes 3. high 2. ability none 2. average 3. high 2. unlimited | ooperative | | | 4 . | none | ຕ່ | trequent | 5 |
| atible 2. performance 4. fast 3. satisfying ge 2. training 4. excellent 3. like more 2. ability 3. experience 3. confidence 1. high 2. sometimes 3. high 2. ability none 2. average 2. unlimited high 2. knowledge 2. | ersonal | r, | important | 4 | helpful | r, | tun | ~ |
| ge 2. Training 4. excellent 3. like more 2. ability 3. experience 3. confidence 100d 2. sometimes 3. high 2. ability 100e 2. sometimes 3. high 2. unlimited high 2. knowledge 2. unlimited | ompatible | ~i | performance | 4. | fast | ю. | satisfying | 5 |
| 2. ability 3. experience 3. confidence Jood 2. sometimes 3. high 2. ability none 2. average 2. unlimited high 2. knowledge 2. | rerage | 2. | training | 4. | excellent | | like more | |
| 2. sometimes 3. high 2. ability none 2. average 2. unlimited high 2. knowledge 2. | reat | 2. | ability | ю. | experience | i m | confidence | 6 |
| high 2. average 2. high 2. knowledge 2. | bood Vis | 5 | sometimes | ю. | hiah | i c | ability | |
| 2. knowledge 2. |). | i | none | 2. | averane | i c | unlimited | 2 |
| i | | | high | 0 | browledan | i c | | i |
| | | | 5 | i | Rilowieuge | . | | |

| 7. The field of the second | equipment used on my job | | my supervisor | FREO | use of my abilities at work | | handling of grievances of my job handling grievance FRE6 | of my job FREQ |
|---|--------------------------|--------------|---------------------|------------|-----------------------------|-------------|---|-------------------|
| 8 repution is for book 1. 900 5 repution is for book 4 triand book 4 4 triand book 4 5 repution is for book 3 repution is for book 3 repution is for book 3 repution book 4 4 triand book 5 repution book 3 repution book 3 repution book 3 repution book 5 recognition work 7 recognition book 1 3 repution book 3 recognition work 7 7 recognition book 1 3 recognition work 7 5 recognition work 7 recognition 3 recognition work 7 7 recognition work 7 7 3 recognition work 7 7 recognition 7 7 | ī | REC. | | | use of abilities | | | |
| Farther in the second second | | ×. | heloful | 11. | good helnful | G | understanding | ດີ |
| B mensary B mensary B and securation C Norwiedgeable 5 wwys 3 acquare A Nitend 4 5 wwys 3 acquare A Nitend 4 5 wwys 3 acquare A Norwiedgeable 4 4 trend 3 acquare A Norwiedgeable 4 trend 3 acquare B Norwiedgeable 4 trend 3 acquare B Norwiedgeable 4 trend 3 acquare B workedgeable 4 trend 3 acquare B workedgeable 4 trend 3 acquare B workedgeable 5 trend 3 acquare B workedgeable 5 trend 3 acquare B strated 3 actination 2 formation B actination 2 trendshift 2 trendshift B actination 3 actination 3 actination B actination 2 trendshift 2 | | . u | fair | | limited | , r | fair | ۍ ن |
| 6 inclugent 5 all 3 adequate 6 inclugent 5 all 3 adequate 7 include 4 sector 3 adequate 4 include 4 sector 3 adequate 4 include 4 sector 3 adequate 3 include 4 sector 3 include 3 include 4 sector 3 include 3 include 3 include 3 include 3 include 3 include 3 include 5 include 3 include 3 include 5 instration 3 instration 3 instration 5 instration 3 instration 3 instration 5 instration 3 instration 4 4 instration 5 instration 3 instration 4 4 instration 5 instration 3 instration 4 4 4 6 instration 3 instration 3 6 | | : : | poob | i o | necessary | 4 | good | ы. |
| 6 ork of a seconderate 5 weys 3 the formulation of the formulation 4 the formulation 5 weys 5 we considerate 5 weys 3 the formulation 1 th | | <u>م</u> ا | intelligent | ۍ ا | al le | ň | adequate | с, |
| 6 Find 5 Havys 3 Chandic and the speed friend 4 Find 4 Find 3 Chandic and the speed friend 5 Chandic and the speed friend | | ີ່ ທີ | OK | D | yes | с, | necessary | с, |
| 4 kind 4 learning 3 schannels 4 kind 4 peed 3 schannels 5 understanding 4 total 3 schannels 3 strowledgeable 4 total 3 schannels 3 strowledgeable 4 total 3 schannels 3 strowledgeable 4 total 3 schannels 3 strowledge 3 knowledge 5 schannels 3 strowledge 3 knowledge 5 schannels 3 stronghtul 3 schannels 5 schannels 3 schannels 5 schannels 5 <t< td=""><td></td><td>ۍ ن</td><td>considerate</td><td>ۍ م</td><td>always</td><td>'n</td><td>talk</td><td>ri</td></t<> | | ۍ ن | considerate | ۍ م | always | 'n | talk | ri |
| 4 frend freed a speed a selon 6 knowledgeble 4 try 7 knowledgeble 4 try 8 workedge 3 a curveryen 8 great 3 knowledge 2 moveledge 2 mov | | 4 | kind | 4. | learning | с, | channels | с, |
| 4 rice 4 rical 5 few 4 boxs anderstanding 3 recrains 5 few 3 anderstanding 3 revarding 3 revarding 5 sow 3 anderstanding 3 revarding 3 revarding 5 sow 3 areating 3 revarding 3 revarding 5 sow 3 areating 3 revarding 3 revarding 5 sow 5 revarding 3 revarding 5 recessary recessary 5 responsibility 2 responsibility 2 recessary 5 responsibility 2 responsibility 2 recessary 6 arear 2 responsibility 2 recessary 7 responsibility 2 recomplete recessary 8 responsibility 2 responsibility 2 recessary 6 responsive 2 responsive | | 4 | friend | 4. | speed | ຕ່ | seldom | 2. |
| 4 knowledgeable 4 try 2 slow 3 avokedgeable 4 try 2 slow 3 avokedgeable 4 try 2 slow 3 avsted 3 sexuacy 2 my control of pace 2 respections 3 sexuacy 2 control of pace 2 respections 2 recognition for my work 2 control of pace 2 responsive 2 recognition work 5 more 2 responsive 2 recognition work 5 fraction 2 responsive 2 recognition work 5 fraction 3 dependable rescognition work 5 <td< td=""><td></td><td>4</td><td>nice</td><td>4</td><td>total</td><td>5</td><td>few</td><td>~</td></td<> | | 4 | nice | 4 | total | 5 | few | ~ |
| 4 boss 3 understanding 3 ersy going 3 ersy going 3 ersy forient 5 ersperience 2 thoughtful 2 | | 4 | knowledgeable | 4 | trv | 2. | slow | بم ا |
| accuracy as accuracy as accuracy as a set going a moderstanding as easy going are warding as are warding as a potential and expension through the interaction and any point of pace expension in the accompany policies on the provided and and a company policies on the provided and and and a company policies on the provided and and a company policies on the provided and and and a company policies on the provided and and and a company policies on the provided and and and a company policies on the provided and and and a company policies on the provided and and and and and a company policies on the provided and and and and and and and and and an | | 4 | poss | с, | knowledge | N | | |
| 3. rest going 3. revarding 2. revarding 3. experience thoughtful 3. potential 2. control of pace 2. experience thoughtful 3. wated responsibility 2. recessary 2. responsibility 2. responsibility 2. necessary 2. responsibility 2. recessary 2. necessary 2. responsibility 2. recognition for my work 7. pood 2. responsibility 2. recognition work 7. pood 2. responsibility 3. recessary point point 2. responsibility 3. recessary pood pood 2. restary 5. recessary pood pood 2. restary 5. recessary pood pood 2. restary 5. reducate pood | | ່ ຕໍ | understanding | ຕ່ | accuracy | ~ | | |
| 3. great 3. potential 2. control of pace 2. experiment 3. wasted 2. recessary 2. revolution 2. recognition for my work 2. recessary 2. responsibility 2. recessary 2. recessary 2. responsibility 2. recognition for my work 2. recessary 2. responsibility 2. recognition for my work 2. recessary 2. responsibility 2. recognition work FREO slow 2. responsibility 2. recognition work FREO slow 2. responsibility 2. recognition work FREO slow 2. respect 3. pipful 5. more 3. finptul 5. recessary finate 3. finptul 3. inportant finate 3. finite 3. inportant finate 3. finite 3. deadines fina | | i m | easy ooing | က် | rewarding | 2 | my control over work p | ace |
| 3. efficient 3. wasted 2. responsibility 2. recessary 2. recessary 2. responsibility 2. recessary | | i r | oreat | ict | potential | 5 | control of naco | |
| 2 experience thoughtful 2 responsibility frustration 2 responsibility frustration 2 respensive responsive 2 recognition for my work smart 2 recognition smart 2 recompart 3 | u | , , , | efficient | i m | wasted | | | |
| 2 restantion 2 restantion 2 restantion 2 restantion 2 restantion 2 restantion 2 responsive 2 responsive 2 responsive 2 responsive 2 recognition work FRED speed 2 responsive 2 recognition work FRED speed 2 company policies on 2 recognition work FRED speed 2 company policies on 3 recognition work FRED speed 2 company policies on 3 recognition work 5 recomplete 2 respect 3 recognition work 5 recellent 2 company policies 3 reconveldge important 2 ressanty 4 9 respect 3 reconveldge 3 flexible 3 reconveldge 7 reconveldge 4 9 retext 2 respect 2 reconveldge 5 retext <td></td> <td>i r</td> <td>evnerience</td> <td>i c</td> <td>reconcidity</td> <td>i 0</td> <td></td> <td>o r</td> | | i r | evnerience | i c | reconcidity | i 0 | | o r |
| 2 read 2 recognition for my work 2 recognition for my work 2 responsive 2 recognition for my work 7 5 mone 2 respendable 2 recognition for my work 5 speed speed 2 dependable 2 recognition work 5 speed speed 2 compary policies on mone 3 inportant 5 streed 2 compary policies FREO 3 inportant inportant 2 compary policies FREO 3 inportant inportant 2 compary policies FREO 3 inportant inportant 2 compary policies 7 4 pay some street 2 compary policies 8 afecuate 3 inportant inportant 3 fair 3 simportant 2 street 2 inportant 3 firstile 3 street 2 street 2 inportant 3 inportan | | vi c | thouch thus | ic | | ic | 0000 | ÷ (|
| 2 experienced esponsive 2 recognition for my work responsive 5 complete responsive 2 responsive 2 recognition-work helpful 5 recognition-work recessary FREO slow 2 company policies 7 7 5 enclient slow 2 company policies 7 7 5 mine slow 2 company policies 7 7 5 mine slow 2 company policies 7 7 5 mine slow 2 company policies 7 7 3 introle 5 important 2 company policies 7 4 3 introle 3 introle 2 company policies 7 4 3 introle 3 introle 3 factuate 3 adequate 3 introle 3 introle 3 factuate 3 adequate 3 introle 3 introle 4 factuate 3 < | | . , . | | i r | | • | none | • ف |
| 2 responsive 2 recognition work FRC speed 2 responsive 2 recognition work FRC speed 2 dependable 2 recognition work FRC speed 2 admary policies on 3 reficient 5 rime 2 company policies on 3 reficient 5 rime 2 company policies on 3 reficient 5 rime 2 company policies 5 6 rime 3 important 2 some 9 adequate 3 recention 3 important 2 recessary 4 4 by others 3 important 5 rime 3 intert 3 adequate 3 adequines 5 recellent 3 intert 3 adequate 3 inportant 5 remo 4 contert 3 adequate 3 inportant 5 rexcellent 3 intren | | vi o | | v c | | | complete | 4. |
| reponsive condition-work FREO slow reponsive conditions reponsive conditions reparations reponsive conditions r | | | experienced | י ר | recognition for my work | | speed | 4.0 |
| 2. smart 2. good 5. mine 2. dependable 2. good 5. mine 2. company policies on none 3. knowledge ime 2. company policies on 3. knowledge 3. ime 2. company policies 5. erficient 5. ime 2. good 9. adequate 3. important 2. pood 9. adequate 3. important 2. or time 3. adequate 3. important 2. or time 3. adequate 3. important 2. or time 3. adequate 2. important 2. or time 3. adequate 2. important 2. or time 3. adequate 2. important 3. ifexible 3. adequate 2. important 3. ifexible 3. adequate 2. important < | | | | vi r | recognition-work | FREQ | siow | nj (|
| 2 dependable -1 helpful 5 excellent 2 company policies on conse -1 helpful 5 excellent 2 company policies on conse -1 -1 efficient -1 2 company policies FRE0 -1 -1 -1 -1 2 company policies FRE0 -1 -1 -1 -1 -1 2 company policies FRE0 -1 | | | | via | good | . | mine | , i |
| 2. company policies on a cessary be findent on the fittient on the fittient on the sone of the fittient on the sone of the son | | | oepenaapie | 7 | helpful | ۍ. | excellent | |
| 2company policies on mylobnone4efficient2company policies on mylobmylob3thread2company policies9adequate3thread2good adrine9adequate3thread2pood adrine9adequate3thread2fair8respect3thread2fair8respect3thread2on time3salary2adequate3adequate3salary2thread2on time2money2money9strict2money2thread6changeable2important2thread6strict2salary2thread6strict2money2thread3important2salary2thread6strict2strict2thread3important2strict2strict5strict2strict2strict6strict2strict2strict7important2strict2strict8strict2strict2strict9strict2strict2strict112strict2strict3inportant <td< td=""><td></td><td>..</td><td></td><td></td><td>necessary</td><td>ۍ</td><td>time</td><td>. .</td></td<> | | . . | | | necessary | ۍ | time | . . |
| 2.company policies on mylobsome3.knowledge2.mylobittle3.ittle3.ittle2.good9.adequate3.ittle3.ittle2.0K9.adequate3.ittle3.ittle2.0K9.adequate3.ittle3.inportant2.0K9.adequate3.adequate3.important2.0K9.adequate3.alary2.important3.strict3.appreciation2.important2.9.adregable2.important2.important9.adregable2.important2.important9.strict2.money2.important9.strict2.important2.important6.strict2.important2.important3.infine2.supervisor2.important3.infine2.supervisor2.important3.infine2.supervisor2.important3.infine2.supervisor2.important3.infine2.supervisor2.important3.infine3.infine3.important3.infine2.supervisor2.supervisor3.infine2.supe | | . | : | | none | 4. | efficient | 2 |
| 2 my Job little 3 flexible 2 company policies FREO normal 3 flexible 2 fair 8 respect 3 deadlines 2 fair 8 respect 3 deadlines 2 fair 8 respect 3 deadlines 3 adequate 3 salary 2 important 2 unfair 3 salary 2 mortant 2 3 adequate 2 monetary 2 mortant 2 deadlines 9 strict 3 salary 2 monetary 2 deadlines 6 fine 2 monetary 2 monetary 2 deadlines 3 inportant 2 monetary 2 recention 2 deadlines 6 fine 2 important 2 reprection 2 deadlines 3 inportant 2 reprect 2 reprect | | 5 | company policies on | | some | r, | knowledge | 2. |
| 2. company policies 2. FREO normal 3. important 3. important 3. eacequate 3. eacedines 4. pay 5. flexible 3. eacedines 3. eacedines 5. eacedines 6. strict 5. experience 6. strict 7. eacedine 8. eacedine 9. eacedine <li< td=""><td></td><td>, S</td><td>dol ym</td><td></td><td>little</td><td>с,</td><td>flexible</td><td></td></li<> | | , S | dol ym | | little | с, | flexible | |
| 2. good 2. good 3. dequate 3. oK 3. necessary 3. necessary 4. pay 5. flexible 3. appreciation 2. unfair 3. appreciation 3. appreciation 3. appreciation 3. appreciation 3. appreciation 4. pay 5. deadlines 6. strict 6. clean 7. experience 8. respect 9. deadlines 9. adequate 9. adequate 9. adequate 9. adequate 9. adequate 9. appreciation 10. experience 11. appreciation 2. supervisor 3. important 2. supervisor 3. important 3. appreciable 3. appreciable 4 advancement 5. advancemen | | 5 . | company policies | FREO | normal | <i>с</i> і, | important | |
| 2. fair 2. fair 2. OK 3. respect 3. respect 3. respect 3. salary 3. salary 3. salary 3. appreciation 3. appreciation 5. on time 9. tensonable 9. tensonable 9. tensonable 2. experience 3. important 3. supervisor 3. important 3. important 4. by others 5. clean 3. important 5. clean 5. rewarding 6. strict 7. monetary 7. monetary 7. monetary 8. respect 8. respect 9. strict 9. strict | | 5 . | dood | ຕັ | adeouate | က် | deadlines | ~ |
| OK Incessary flexible unfair inportant important | | 5 | fair | i œ | respect | ie | | |
| Precessary flexible unfair appreciation <li< td=""><td></td><td><i>.</i>,</td><td>OK</td><td>4</td><td>Ved</td><td>6</td><td></td><td></td></li<> | | <i>.</i> , | OK | 4 | Ved | 6 | | |
| Flexible unfair unfair unfair unfair unfair unfair unfair unfair appreciation appre | | <u>ہ</u> ، | Decessary | 4 | by others | 10 | | |
| unfaire unfaire on time on time not enforced money not enforced monetary reasonable fane fine fine fine mportant fine mportant fine mportant fine mportant fine mportant fine mportant meded mportant mportant meded mportant meded mportant meded mportant mportant meded mportant meded mportant meded mportant meded mportant meded mportant meded mportant mportant mportant mportant mportant mportant meded mportant | | 2. | flexible | | salarv | in | | |
| 2. on time bot enforced con time not enforced changeable changeable fane fine fine fine fine agreeable 2. supervisor frequent 3. important 2. supervisor agreeable 2. agreement | Je | 2. | unfair | i m | annreciation | in | | |
| not enforced 2. monetary reasonable 2. important ensonable 2. important 6. strict 2. experience 5. clean 2. rewarding 6. strict 2. often 3. fine 2. supervisor 3. important 2. needed 3. helpful 2. requent 2. agreeable 2. promotion 2. agreeable 2. promotion | | . 2 | on time | in | money | i 0 | | |
| FREC changeable 2. important 9. lenient 2. important 6. strict 2. experience 5. clean 2. rewarding 3. fine 2. supervisor 3. important 2. requent 3. helpful 2. requent 2. agreeable 2. promotion 2. agreeable 2. promotion | | | not enforced | i 6 | monetary | in | | |
| FREQ changeable 2. experience 9. lenient 2. experience 6. strict 2. often 3. fine 2. supervisor 3. important 2. reeded 3. helpful 2. reeded 2. agreeable 2. promotion 2. agreeable 2. promotion | ss" of my job | | reasonable | | important | 5 | | |
| 9. lenient 2. reverting 6. strict 2. reverting 5. clean 2. often 3. fine 2. supervisor 3. important 2. reeded 3. helpful 2. frequent 2. agreeable 2. promotion 2. agreeable 2. promotion | | 000 | a hannaha | ic | evnerience | ic | | |
| strict 2. often clean 2. supervisor fine 2. supervisor important 2. reeded helpful 2. frequent agreeable 2. promotion wanted | - | | lenient | i ~ | rewarding | ; . | | |
| agreeable 2. oncert clean 2. supervisor fine 2. ego important 2. needed helpful 2. frequent agreeable 2. promotion wanted | | ກໍ ເ | | ; c | offen Standar | ; , | | |
| creatin 2. supervisor fine 2. ego important 2. needed helpful 2. frequent agreeable 2. promotion wanted | | | | i c | | vi c | | |
| important 2. ego important 2. needed helpful 2. frequent agreeable 2. promotion wanted Advancement | | ה י ני | ciedit | ic | Super Visor | , , | | |
| important 2. needed helpful 2. frequent agreeable 2. promotion advancement | | з. | Tine | . | ego | . | | |
| helpful 2. frequent agreeable 2. promotion wanted advancement | | r, | important | ~ | needed | 5. | | |
| agreeable 2. promotion wanted advancement | | r, | helpful | 5 | frequent | . | | |
| wanted advancement | | ~ | agreeable | | promotion | ~ | | |
| advancement | | 2 | | | wanted | 5. | | |
| | | i | | | advancement | 5. | | |
| | | | | | | · ~ | | |



APPENDIX B-5

Experiment II: Secretaries' Response Distribution, by Stimulus Phrase and Frequency



,

| ۲ |
|----------------------------|
| FRIC |
| LIQU |
| Full Text Provided by ERIC |

| 1 | 39 |
|---|----|
| • | |

| opportunities for on-the-job | he-ioh | experience | ÷. | nice | <u>.</u> | | :, |
|------------------------------------|----------------|------------------|----------------|---------------------|--------------|-----------------------|-----------------|
| training | | uncertain | - | neat | ť | CIVIL SERVICE | ' . |
| D | | participating | - | content | . | indifferent | Ļ. |
| on-Job-training | FREQ | eniovable | : - | hurry | - . | cooperation | |
| necessary | ۍ ن | | | learning | <u>, -</u> | Important | ÷. |
| heipfui | 4 | | | husv | · | none in office | ÷. |
| poot | ň | | <u>,</u> | | : - - | efficient | - |
| needed | ň | duestioning | -' . | relation to people | ÷ | had | - |
| none | 2 | good experience | <u> </u> | little time off | | non-furctioning | : . _ |
| many | in | ability to learn | ' 1 | | <u>.</u> | | : . |
| keyningching | i - | long | | Amusuodsau | <u>-</u> , | | |
| | | | | engrossed | `. | together | -' , |
| excellent | -i • | me at work | | congenial | Ë. | not necessary | <u>-</u> ' , |
| slight | <u> </u> | | | reliable | ÷. | enthusiastic | |
| earning | - | | | frustrated | - | glad | - |
| important | - . | Asna | ດ່ | inguisitive | , <u> </u> | undestred | ÷. |
| nıl | ÷. | bored | 4. | sometimes unticht | · - | should have one | Ļ |
| completed | - | happy | 4 | rectless meide | | hetter without | : |
| vouthful | | helpful | 4. | | | non-nroductive | - |
| vorkina | - | Interested | с, | | | | : . |
| eome | : - | friendly | Ś | | -' . | | <i>.</i> |
| should be after | - | dissatisfied | 2 | enjoy tearning | -' , | | - . |
| different presedure | | efficient | | ask tew tavors | <u>,</u> | | <u>-</u> , |
| unieren, procedure bookkor anac | -' - | eniovablu | i 0 | satisfaction | - ' | collective | <u> </u> |
| | <u>-</u> , | | ic | useful | | not needed | <u>_</u> . |
| uesirable | _ ` , | mondu | 40 | baffled at times | - | wasted time | ' · |
| possible | <u>-</u> , | | . , - | co-workers | ÷ | compliance | <u>, í</u> |
| sufficient | ' . | | _` • | best of my ability | ÷. | little known | - |
| learn by mistakes | ľ. | trying hard | _' . | lıking it | ÷. | fine as is | - |
| being taught | | music | -' , | limitations | ÷ | kills initiative | Ļ, |
| unavailable | Ļ | consc'entious | ' , | concentration | ` ` | concerned | |
| aptitude | | hours | -' , | enjoy working | Ļ. | rewarding | - |
| listening | ÷. | nard | _' . | telephone | ÷. | disagreeable | , |
| inadequate | <u></u> | tired | _' . | released | ť | | |
| not offered | . | Steduy | | getting work done | - | | |
| changes | ' . | | -' - | challenged | - | my working conditions | |
| new skills | - ' · | | | knowledgeable | ÷ | working conditions | FREQ |
| personnel relations | . | | -' - | l'm important | | aood Š | ທ່ |
| unnecessary | ' . | | . | people | - | pleasant | 4 |
| probable | `` | need improvement | | doing something | Ļ | eniovable | 4 |
| watching others | 1. | long | | ability | ` -' | cipan clean | |
| vital | , | | <u> </u> | personality better | | indress ired | in |
| possibly useful | ÷. | teeling good | ' . | | ! | | i c |
| better | Ļ | controlled | •' | | | | ic |
| enthusiasm | | unhappy | . | the union on my job | | trienaly | vic |
| doing | - | helped me grow | . . | | | | . |
| acceptable | | rarely late | •' | union on my job | LHEU | very guod | . |
| necessary important | , , | self confidence | ÷. | none | <u> </u> | adequate | - |
| meet deadlines | Ĩ, | job | | | vi r | excellent | -' . |
| advancement | ` ` | experienced | - . | goog | N I | not | <u> </u> |
| public relations | ; <u></u> | | | necessary | N | contining | ' , |
| | • | | | | | | |

.

| ERIC |
|----------------------------|
| Full Text Provided by ERIC |

| | 1000110001 | | - | not become a habit |
|------------------------|---|-------------------------------|--------------|--------------------------|
| taır | - | | | nice |
| great | - | | | home |
| beautrful | - | plants | -i • | complete swiftly |
| crowded | Ļ, | | - • | no interference |
| alrıght | . - | like noise | _' , | never |
| need improvement | ÷. | | -' - | Inconvenient |
| compatible | ÷ | understanuing | -' , | busy |
| nice office | ÷. | great co-workers | <u>.</u> : | unlimited |
| equipment | - | | | not bothersome |
| typewriter | 1. | | | sometimes impossible |
| good equipment | ' • | mv overtime work | | housework |
| uirty not efficient | -' | my over time work | FRFO | waste time |
| undestrable | | none | 4 | accomplish more |
| quiet | · | very little | 'n | rush |
| comfortable | · | Infrequent | ຕ໌ | not enough |
| need improvement | | compensation | 'v' | needed |
| neat | ۴. | not necessary | 4 | LE |
| office small | - | rare | ~ | hours |
| easy to adjust to | ŕ | unnecessary | 6 | occasionally |
| nice desk | - | unfair | 5. | |
| lighting | ľ | necessary | 2. | |
| easy | , | discouraged | . | my control over work n e |
| semi-clean | - -' | non-existent | . | control of methods |
| satisfying | ŕ | sometimes | ' , | important |
| co-workers good | ŕ | little | | necessary |
| contusion | <u>, , , , , , , , , , , , , , , , , , , </u> | not much | -ť. | good |
| demanding | - ' | | _' • | able |
| challenging | -' • | | | judgment |
| attitude | -' - | | | liberal |
| Interesting | | | <i>.</i> , | sometimes |
| windowiess | - · | | | moderate |
| | ' - | | | pace |
| | <u>-</u> . | ture | _ _ | none |
| good machines | -í - | iew willingneee to et av | | proper |
| | | winnightess to step teldom | | frequent |
| | | company time | ÷ | reasonable |
| complaint | ÷ | eniov | : | nood si |
| relaxing | | if needed | : | bao:vladae |
| cooperative | | no pay | - | |
| distracting | _ | if have to | ١, | limited |
| clear instruction | - | get job done | , | using own indoment |
| little storage space | . | sometimes at home | - ' | Droaressive |
| facilities | , | extra | , | conscientious |
| | • | time off | - | |
| untair | | | | limitlace |

| scome a habit | 1. | satisfy ing |
|-------------------------|------------------|--|
| | - | speed |
| | <u>, -</u> ' | cooperative effort |
| ete swiftly | - | httle |
| erference | - | average |
| | - | adaptable |
| /enient | ٦. | experienced |
| | ۲. | more |
| ted | ٦. | procedures |
| othersome | - | control |
| imes impossible | - | more than usual |
| vork | - | standard procedure |
| red | - | ability to change |
| time | - ' | Instructions |
| plish more | - ' • | programmed |
| | Ľ. | Well done |
| hgho | | fairly easily |
| _ | . | methodical heloful |
| | | bureaucracy |
| vilence | ÷. | know how |
| | <u>.</u> | make sumestions |
| | | format |
| atrol over work a sthod | thod. | interesting |
| | | concentration |
| methods | FRED | Concentra annig |
| ant | 2 | |
| ary | c i 0 | procise dictated |
| | 6 | |
| | ' . | cheduled |
| ant | · | self-reliance |
| | -' - | lots |
| | -' - | carefut |
| מוכ | | filing procedures |
| | | follow rules |
| | :: | precisic 1 |
| 11 | , | mv iob |
| able | - · | |
| | - • | |
| 1- | | ching the second s |
| uge | _' • | interesting borios |
| IOUN TAKEN | _' • | |
| wo indoment | -' - | recessery |
| sive | -' - | dult |
| ntious | : _ _' | boob |
| S | Ľ. | exciting |
| Jes | Ļ. | important |
| | | |

| - • | | ' | ÷' | . | | | - | -' - | | ÷ | - | ÷. | ' - | | | | - | ٦. | | - ' | Ļ, | . | . | ' . | | | í 🚅 | . | - | - | | FREQ | 4,4 | t m | ່ຕໍ | ຕ່ເ | ini | | ż |
|------------|-----------------------------|-----|---------|--------------|-------------|------------|---------|-----------------|-------------------|--------------|------------|-----------|---------------|-------------------|-------------|----------|------------------|--------|-------------|---------------|----------|----------|-----------|------------|----------------------------|------|---------|-------------------|--------------|------------|--------|--------|--------|--------|-----------|-----------|------|----------|---|
| satistying | speed cooperative effort | tle | average | adaptable | experienced | procedures | control | more than usual | ability to change | Instructions | programmed | well done | fairly easily | enioon. Ilaful | bureaucracy | know how | make suggestions | format | interesting | concentrating | caimness | precise | dictated | training | scheduled self-reliance | lots | carefut | filing procedures | follow rules | precisic 1 | my job | my job | typing | boring | necessary | rewarding | poop | exciting | |

140 •---

1.16



| mv job (continued) | | underestimated | _ | awav from home |
|--------------------|--------------|--------------------------|----------|----------------------|
| | (| finities | • | |
| Tun | Z . | f. 16 | | |
| challenging | 2. | instruction | | |
| enjoyable | | headline corrected and 1 | | |
| knowledge | 2. | | | |
| clerk | - | meeting others | | desirable |
| security | - | Jents | <u>.</u> | routine |
| routine | - | _ ` | · | opinions |
| could be better | • | cutring 1 | | security |
| telephone | - | untairness | | rewarding |
| tension | ⁻ | letters | | sickpay |
| ability | | type | • | civil servant |
| happy | | andling 1 | | payroll savings |
| answer phone | : | helptul to others | | state |
| ames | · | personnel | | usetui |
| work | : | confidence | | other people |
| had | : - | pasting 1 | | best |
| do | : | - | | different |
| too general | : - - | | | goal |
| diversified | ÷ | skill | | average |
| material | ÷ | Tie 1 | | late when necessary |
| deadlines | : <u>.</u> | limitations 1. | | sick pay |
| attitude | ÷. | promotions 1. | • | extra |
| | <u>-</u> | pay 1. | | economical |
| self-confidence | : . - | | | glamour |
| Jon - Company | : | my fringe benefits | | outstanding |
| deteration | ÷ | mv fringe benefits FRI | FREO | gets better |
| tedioirs | | | 1 | best yet |
| intrassful | | | · | Christmas bonus |
| sooradic | : . _ | ance | | |
| satisfund | | | | work pace used on my |
| demanding | | -etirement 3. | | work pace used |
| evaluation | | | · | slow |
| down oradino | ÷ | | | fast |
| constant | : - | medical insurance 2. | | steady |
| pleasant | - - | important 2. | | moderate |
| average | 1. | adequate 2. | | varied |
| like the boss | ÷. | intricate 1. | | hectic |
| dictation | Ļ | excellent 1. | | rushed |
| responsibility | - | F | | as work is needed |
| payroll | - | - - | | efficient |
| lengthy | Ļ | life insurance 1. | | sometimes lousy |
| picky | . | moderate 1. | | rapid |
| experience | - | numbered | | changing |
| variable | ٦. | expensive 1. | | mine |
| l lıke it | , | great | | different |
| unstructured | 1. | meet people | | average |
| pressure | - ' | | | |

quick when recessary getting job complete sometimes pressure sometimes too much effectivc fixed by deadline knowledgeable extremely fast usually easy going phones interrupt day-by-day sometimes slow lots of pressure concerned desired at times type letters fast unprogrammed try to regulate controllable unimportant changeable Interesting confusing important individual moderate not tiring undesired necessary dragging tense spurts relaxed depends hurried enough differs normal ability stable varies equal ٨snq easy

÷

4444

÷ ÷ <u>نے نے</u> ÷ Ľ

<u>____</u>

| | ທີ່ຕີເບັ | systematic too much red tape easy messy | : | brief unsupervised irregular | | interference-job phones none noise | н 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|---------------------|-------------|--|------------------|------------------------------------|--------------------|---|--|
| | ~~~~ | concentration evaluation self-developed | | gossipy nice ideas | ╧╺╧╺╴╸ | coworkers often breaks | |
| | , | varieu repetitious knowiodoochio | ╧╺╧╺ | er joy er regimented | ╧╺╧╺╴ | problems occasionally | |
| | | exceptions | <u>-</u> | discuss family | ÷, | varied too many | |
| | ' | handling people at times inadequate | | two | - ,' | aspirations unrelated errands | |
| | : <u>.</u> | productive | - | allowable | -' • | little | - |
| | ÷. | concerned | ŕ | waik unscheduled | | personal problems | · |
| | | my coffeebreaks | | when I want | ; , . ' | not necessary | -' +' |
| | :: | my coffeebreaks | FREQ | small | -' . | hardly any | - |
| | <u>.</u> . | necessary | 2 | too short | | salesmen | ' · |
| | <u> </u> | short | م . ر | telephone telephone | | superiors | ~ - |
| | | good friends | ν, c | relaxing | - | people | |
| | | talk | i c | not structured | | sickness sometimes | - |
| | 1. | relaxing | í ci | break | ' • | distracts | <u>-</u> |
| | -' . | needed | ~ 0 | make prione call work load | | supervisor | |
| | | helptui tuure a dav | - F | time | . . | aooravatino | |
| somewhat cumbersorn | :: | semi-strict | : <u>.</u> | interesting | . | reject | - |
| | 1. | reiease | | working | • • | distractions | ÷ |
| | 1. | adequate | - | discuss | | could-eliminated | - |
| | Ļ. | taken | ť | change | <u> </u> | nearby conversation | • |
| | 1. | rest | Ĺ, | nate snort breaks | +- | visiting in office | |
| | - | not many | <u>, - '</u> | reida not set time | | telephone calls | |
| | <u> </u> | intervals | ' , | unfair at times | | socializing | |
| | | Inn | <u> </u> | information | | in officient | |
| | <u> </u> | | -' • | not always necessary | - | nennen etaff | |
| | | | | coworkers | - | station | - <u>-</u> |
| | | | | laugh | - | annovino | : <u> </u> |
| | | use common sense | ÷ | think | - | anorv | · |
| | | don't have | | not authorized | - | self improved | - |
| | ÷ | | - | rewarding | - | show attention | ÷ |
| | : | chance to relax | - | respite | <u></u> | talkıng | |
| | | fair | : | relicf | - | confusion | |
| | | | - | calm | - | weitore | - |



- -

| | Intererence with my job (cont d) | service | . | obtainable | - |
|----------------------|---|-------------------------|--------------|---------------------------|--------------|
| independent | - | satisfying | ÷ | experience | - |
| outside | | realistic | ÷ | different people | - |
| can cope with | ÷ | happy | - | read | - |
| redoing | ÷ | Buings | - | stimulatıng | - |
| professors | ÷ | should comply | - | rewarding | - |
| unnecessary | ť | worth | - | enjoy | - |
| davdreaming | - | proud | - | interested | - |
| | | could be better | - | accomplish more | - |
| | | Increase | - | variety | - |
| | | an m | - | fluctuating | - |
| my pay | | 2 | : | roll | |
| average | . . | my concretinities to do | 2 | slastnass | |
| better | N | | 31 | | - • |
| fair | ci | a variety of tasks | | rearning | |
| not enough | 6 | variety of tasks | FRFO | unstructured | - • |
| requiar | 1. | | | complete | - |
| sufficient | - | | ŕ¢ | sometimes by myself | * *** |
| | | | י י | helpful | - |
| | <u>-</u> , | constantly | 2. | sunervicor | |
| small | | desired | ~ | | |
| little | <u>, '</u> | important | 2 | avancement | - ' |
| unconcerned | ľ | limited | i 0 | department | |
| is good | ÷ | | ic | ability | - |
| according to ability | . | challenoing | | | |
| should be higher | | criance survey | ic | freedom to use my own | -1 |
| up to standard | ÷ | unlimited | ic | jud gme nt at work | |
| inadequate | Ļ | | i - | freedom-indoment | C 3 8 3 |
| ability to live | | | <u>-</u> . | | |
| | . | LIODIAS | <u>-</u> , | | |
| | ÷. | numbered | _ . | otten | . . |
| Tactor VItal | <u> </u> | adequate | Ľ, | necessary | ~ |
| need more | , in the second s | assignments | Ļ | ability | ~i |
| adequate | • | lots | <u></u> | check with boss | <u> </u> |
| more raises | - - | medium | ÷ | sometimes | - |
| satisfied | . | eniovable | ` - ' | confined | . |
| need raise | - | definitely | - | bood | |
| nut by merit | - | | :. | | • |
| cot automatic | • | great | | | |
| | :. | | <u>-</u> , | nooerale | |
| | - . | show ability | - | none | - |
| relieving | | every day | - | frequently | - |
| Noi | ÷ | too many | ÷ | confidence | - |
| security | - | week-by-week | - | most usually | - |
| support child | , | type | | constantly | - |
| helps | ľ, | outstanding | - | verv open | - |
| measure | - | importance | ÷ _ | varies | . – |
| unimportant | - | show baculades | | most of the time | - •- |
| rewarding | : <u></u> | | -' - | | |
| advancement | | | <u>-</u> . | | - • |
| | : | | | | |

| | Ű | i i |
|---|---|---|
| wanted responsibility no other way good feeling likeable like feel important desired completion more helpful make suggestions narrow | needed good judgment competitive atmosphere helpful exercise capability initiative useful makes job better incentive excellent experience interaction experience competence | motivation advancement communication not necessary trust no pressure personal satisfact my fellow workers my fellow workers my fellow workers helpful friendly good cooperative nice likeable understanding considerate unconcerned |
| wanted responsibility no other way good feeling likeable feel important desired completion make suggesti narrow | needed good judgm competitive helpful exercise capability initiative useful incentive excellent experediative interaction experience competence | motivation advancement communicati not necessary trust no pressure personal satis personal satis my fellow wo helpful friendly good ikeable likeable understandin considerate unconcerned |

للوالي الواليو الو .

ERIC

÷

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| | 2. | 2 attendance | 2. cert source | | | hard working | f easy to work w | l kind | 1 just | | 1. helpful | 1. could be bette. | 1. interesting | 1. my working ho | 1. mv working ho | - | | 1. long | 1. flexible | 1. necessary | 1. eight | | | 1. eraht to-five | | 1. fast | 1, standard | 1. acceptable | 1. fine | 1. good lunch ho | | 1. handv | | 1. forty | 1. frequent | 1. shorter | 1. filled | 1. long for me | - | I. Iss breaks | |
|----------------------------|-------|---------------|----------------|------------------------|---------|--------------|------------------|--------|--------|--------------|------------|--------------------|----------------|-----------------------------|------------------|------|--------|---------|---------------|------------------|------------|--------------------|--------------|------------------|-------------|---------|-------------|-----------------|-------------|------------------|------------------|--------------|-------------|-------------|-------------|------------|--------------|----------------|-----------|---------------|-----------|
| my fellow workers (cont'd) | great | knowledgeable | lazy | bei sonarity honeet | friends | ha.d | female | OK | fun | aood workers | varied | are amiable | excellent | mannerisms Eisid workiss | distraction | fair | insane | busy | uninteresting | fairly competent | compatible | enjoyabie duili | belning hand | training good | cleanliness | release | personable | sometimes pushy | small world | routine | offer arristance | need college | tactfulness | responsible | intelligent | competent | pre-occupied | rewarding | efficient | irritable | concerned |

| | | feeeeeeeeefe | Workers FREC - 2, 2, 2, 2, 4, 5, 7, 7, 8, 60 |
|--|--|---|--|
| supervisor desirable occasionally efficiency incomplete grateful from within | new job helpful fulfilling others appreciate praise satisfactory scary | frustrated at times helping necessary quantity gratifying aptreciation important appreciation important enjoy job more finish job average ego building being helpful being ability | interaction with my coworkers interaction-coworkers FFEC friendly 8. good 7, helpful 5. necessary 4. cooperative 2. adequate 2. enjoyable 2. congenial 1. |

| FREQ | œ | ٦. | Ś | 4 | \$ | ~ | 6 | 6 | _ | - | - | - | - ' | - | - | - ' | - | - |
|-----------------------|----------|------|---------|-----------|-------------|-----------|----------|-----------|--------------|------|------------|---------|----------------|------|----------|------------|---|---------|
| interaction-coworkers | friendly | pood | helpful | necessary | cooperative | Important | adequate | enjoyable | congenial | easy | friendship | ability | constant | nice | frequent | OK | 5 | tactful |

r –

| ۲ |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| usually enjoyable usually enjoyable not often socially essponsive essponsive tessponsive essponsive tessponsive the filt helpful no fus helpful no fus the helpful the no fus the helpful the no fus the no fus n | e yable ample many nul none helping daily daily concern concern concern service sometimes minimal experience giving information ego inferested in would like information | 1 |
|---|---|------------------------------|
| challenging personality relaxing amiable interested concerned frowledge gaining desirable desirable desirable interesting desirable interesting desirable interesting assist interesting desirable interesting desirable interesting inter | unrelated ability confidence adequate interested meeting people prestige unavallable now good feeling college comraunity necessary willing good time desired warmth care about this satisfaction helping hand opportunity know when | NEVENDAESEEVENSAE ONAGES |

| а а а а а а а а а а а а а а а а а а а | | fulfillment FREQ 5. 2. 2. |
|--|--|---|
| prestige of my job in the community prestige community intrie prestige community intrie unknown unknown unknown unknown unknown unconcerned necessary public relations undecided a lot employed good average | proud questionable knowledgeable satisfactory wasteful wasteful adequate helping satisfy helpful training training adon't need it not concerned | opportunities for self-f self-fulfillment good few little |

| important many gratitude by others inadequate none lots minimal complete excirable | never end satisfaction frustrating wasted attempted satisfying accomplishment bad unhappy questionable busy helping need expression ability fantastic | task you like helping others years trying job weil done reative indifferent time drags productive finishing hecessary desired | knowledge great worthwhile tar . ; building confidence months possible appreciated individual small fulfillment |
|--|---|--|--|
| impol many gratity gratity none hots minin comp | never satisf, frustr waste attem satisf bad unhap duesti helpir need ability fantas | task you helping (years trying job weli reative indiffere time dra producti finishing desired | knowlec great worthw building months months possible apprecia individu small fulfillm |



.

•,

| is important better work do a good job relief had work | not worried skills unfair helpful steady enjoyable unimportant not feared interesting job responsibility | provided competent work money poor no problem listless personality freedom just indifterent | supervisor's evaluation of my work supervisor's evaluation good none appreciative important performance unspoken fair scattered have no complaints pretty good excellent helpful very good infrequent |
|---|---|---|---|
| و يولو تولو تولو | تو تو تو تو تو تو تو تو | т Б О 0 4 0 | کو کو کو کو دو کو دو کو ک |
| yet necessary not depended on meaningful desired friendly | improves be considerate manner self-importance am capable in :rease ambitious confident attitude can cope | my job security my job security necessary good important not absolute high there excellent yes payments questioned confident | continue frot sure great civil service most important satisfactory civil relative calm needed child not afraid imited unshakeable hopeful unconcerned complete |
| | نے نے نے نے ہے نے نے نے نے نے نے | | |
| opportunities for self-fulfillment (cont'd) responsibility concern | use gropinig friendly boundless interested rewardir.g gratifying experience satisfication | completion my orestige at work my prestige-work little low averacie good none-everyone same none-everyone same none don't know limited | so-so important show ability self-concept peasant normal personality unfair unimportant more responsibility group receptionist unencouraged knowledgeable like it ability to cooperate appearance |

| is important | Ļ | still learning |
|-------------------------|----------------|------------------------------|
| better work | - | progress.ve |
| do a good joth | - . | seldom |
| relief | ŕ | necessary |
| hard work | . | output |
| not worried | Ļ | sufficient |
| skills | Ļ | He's satisfied |
| unfaır | ~ . | unfair |
| helpfut | Ļ | caring |
| steady | - . | sometimes over |
| enjoyable | , | thoughtful |
| unimportant | - -' | no supervisor |
| not feared | . | well done |
| interesting job | - . | excellent |
| responsibility | ÷. | promoted |
| provided | ÷. | satisfactory |
| competent work | ، | objective |
| money | ÷. | improve |
| poor | Ļ. | I'm satisfied |
| no problem | - ' | bias or ack of |
| rewarding | - -' | business-like |
| listless | ÷ | considerate |
| personality | Ļ | knows ability |
| freedom | , | honest |
| just | - . | confidence |
| appeai ance | Ļ. | intelligent |
| indiffeient | - -' | competence |
| | | professional |
| | | complimentary |
| supervisor s evaluation | | concerned |
| of my work | | open |
| supervisor's evaluation | FREQ | adequate |
| good | 7. | tactrui heneficial |
| none | 5 | benericiar boome propodiu |
| appreciative | c i | viiows procedu |
| important | ~ ` | |
| performance | - · | interaction with |
| unspoken | <u>.</u> , | |
| tair | . | interaction-sup |
| scattered | . | good |
| have no complaints | | triendly |
| pretty good | - · · | Important |
| excellent | <u> </u> | cooperative |
| helptul | ' - | necessary |
| very good | ' , | great |
| Intrequent | , î | nonest |
| | | |

| المركب تمركم أمراكم المركب تمركم تمركم كم تمركم تمريم مركب تمريم ممركب تمريم ممريم المركب مريم مركب | FREO 6.03.3.3.4.4.6.0 |
|--|---|
| till learning rogress.ve eldom recessary output tufficient tufficient tufficient arifar saring cometimes overrate thoughtful to supervisor well done excellent to supervisor vell done to supervisor vell done to supervisor to su | nteraction with my sup nteraction-supervisor good riendly mportant cooperative recessary great |

| 0 |
|----------------------------|
| ERIC |
| Full Text Provided by ERIC |

| self-regulated all right | calm | improved | with people | different | capable | interesting | friends | successful | eager | own judçment | shaky | growing daily | have train.ng | a lot | experience | understanding | self-conscious | handle situation | built up | interest | know how | poised | satisfaction | usually | learning | ability tc learn | helpful | responsıble | objective | comperent | inconsistent | essential | familiarity | follow d rections | confident | other people | makes job easier | building | adectuate | need more | macterful | | | | Torward | nervous at times |
|---|---------------|--------------------|---------------|------------|-------------|-------------|--------------------|--------------|----------------|--------------|---------|---------------|--------------------------------|---------------------|----------------|----------------|----------------|------------------|-----------|------------------|-----------|-------------|----------------|-------------|--------------------------|----------------------------|---------------|--------------|---------------------|-----------|----------------------------|------------------------------|--------------------|-------------------|-----------------|--------------|------------------|-----------|--------------|------------|---------------|---------|------------------|----------------|---------|------------------|
| - - | ÷ | | - | ÷ | - | | - | : | - | | : | | <u>ئ</u> ے : | ÷ | ` - -' | - | ÷ | - | - | ` - ` | Ļ | <u>ئى</u> (| | | | - | - | - | - | | work | | LAEC | ਹੈ • | 1 .0 | n, e | . | 5. | 'n | 3 | ų 2 | - | Ļ | | | : |
| disapproved categories | abilities | meet quairfication | not worried | efficiency | personnel | importance | only upon transfer | un, /ailable | salarv | change iobs | concern | getting along | performance | boxes | happy here | same as others | in terest | evaluation | success | responsibility | desired | advancement | lıkına the iob | cooperation | color | prestige | not automatic | non shirking | unfair | | mv self-confidence at work | and the second second second | my self-confidence | | knowledge | ability | sometimes | knowing | important | necessary | performance | high | fair | iob experience | none | 2101 |
| | | | - | ÷. | • | Ļ, | . | - | . . | | | | romotion | FREQ | 2 | 5 | 2. | | 6 | 1 | 2. | í ci | i | : | - | : | : <u></u> : | : <u></u> _ | | <u> </u> | : | ; | | | - | | | <u> </u> | <u>.</u> | Ļ | Ļ, | - | ÷ | - - | | : |
| better nebulous at times | not enough | calm | high priority | ability | work an awn | usual | limited | not tense | daily | closed | | | my opportunities for promotion | opportunities-prom. | lin | possible | ability | improbable | knowledge | experience | education | limited | none | hard | verv slow | aood | security | bad | almost non-existent | unsure | scarce | work ability | have been promoted | self-motivation | faw | | | useruness | supervisors | bad system | status quo | hopeful | most important | dedication | skills | 7 |
| | ç | i c | ic | í - | | | | | | <u>.</u> , | | | | | | | | | | | | <u> </u> | <u>.</u> , | - | | | | - . | | | | ÷. | -' · | | <u>, '</u> , | - | | | ÷. | - | ` _ _' | - | | | | Ľ |
| <u>interaction with my</u> supervisor (cont'd) | understanding | helnfill | | terrible | | | friends | | | sometimes | | | tactful | | portonali tior | | | | | superior fair | | watchilig | | | eritient beendedeeble | kiiuwieugeabie prestane | presuge | | | | | | unconcerned | crear | surricient | east. | misunderstood | likable | appreciative | open | desired | concerr | aood when honest | conciderate | | aom |

| 0 |
|----------------------------|
| FRIC |
| Full Text Provided by ERIC |

| my supervisor's ability | | little ability |
|-------------------------|--|----------------------------|
| to handle people | 1 | knowledgeable speed |
| sup handle people | FREQ | adequate |
| great | 4, 4 | dependable |
| boog | 4 0 | could be better |
| Tair | <u>י</u> ר | rock |
| tactrui | יי | other-oriented |
| recessary | າ່ ຕ | not friendly |
| Irrendly | າ່ດ | knowing |
| easy | ο Γ | unsure |
| capable | v c | likeable |
| not good | N (| strong |
| calm. | , , , | efficient |
| umited well | _ ~ | perfectionist |
| bad | : - -' | |
| verv good | - | |
| forceful | - | competence at |
| improve | | poob |
| easy going | , | satistying |
| gentle | - . | personality |
| training | ÷. | trained |
| desirable | , | augrade |
| easıly | - - | average |
| poised | | necessary |
| rough | <u>.</u> | dverage anins |
| important | ., | ts good knowledne of in |
| salesman | - - | Kriuwieuge ur ju |
| not concerned | - | doubte |
| l help | , | uodonadahla |
| kindness | , , | adeniate |
| self-assured | <u> </u> | needed |
| objective | - | careful |
| determined | - . | satisfying to Ct |
| TITM | ' | vital |
| experience Franklin | ÷. | ability |
| y nandri y | <u>-</u> | improving |
| rliants | | experienced |
| not knowledgeable | : ـــ | skiliful |
| thoughtfulness | - | important |
| accuracy | ÷ | complete |
| buintem | ÷. | will improve |
| tensed | - . | ability to perfo |
| steady | . | neat |
| listens | 1. | coworkers |

| little ability | - | fair |
|-----------------------|-----------------|--------|
| knowledgeable | (| some |
| speed | ┍╴╴ | helof |
| dependable | | limit |
| could be better | : | succe |
| rock | - - | bette |
| other-oriented | | poise |
| not friendly | - | knov |
| knowing | | taker |
| unsure | 1 | knov |
| likeable | - | ofter |
| strong | - | hone |
| efficient | • | attitu |
| perfectionist | - | profe |
| | | enon |
| my competence at work | | IIIN. |
| competence at work | FREQ | |
| good | 12. | bau |
| satisfying | 2 | Pnsn |
| personality | - | anthu |
| trained | - . | |
| little | - - | |
| average | | ranic |
| | ' , | depe |
| average skills | <u> </u> | fragr |
| | ' . | |
| knowledge of Job | | effic |
| accurate | -i , | conc |
| | <u>.</u> , | cong |
| undependable | -' , | 00m |
| adequate | <u>-</u> - | prog |
| rareful | : | trust |
| satisfying to cthers | · | |
| vital | ÷. | |
| ability | 1. | dayc |
| improving | - | no t |
| experienced | - | non |
| skiliful | ÷, | little |
| important | ÷ | Intre |
| complete | - . . | nsua |
| | ÷. | |
| ability to perform | <u> </u> | |
| rownrkers | : - | ofte |
| | £ | a lot |
| | | |

| | | : . .: | 1. so | 1 ea | 1 ne | 1. no | 1. nc | d 1. bu | 1. u | ц Ч | | 1, su 1 | 1. tu | 1. | | | ; - | 1. 2 | <u> </u> | <u>م</u> | ž. | • | | | : -: | 1. ir | 1. | | ē c | at work el | FREQ | ະ ຕິ | _ | - | | | | | :- | F . |
|---------|-----------------|---------------|-------|-----------|-------|-------|----------|------------------|---------|-------------|-------|--------------------------|----------|------------------|--------------|---------|------------|--------------|------------|----------|------|------------|-----------|----------|---------------|-----------|-----------|-------------|------|------------------|------|---------|------|-------|-----------|-------|-------|---------------------|----|-------|
| aur | omewidt patient | | mited | uccessful | etter | oised | nowledge | aken for granted | edg | ften tested | onest | ittitude irofassional | nough | villing to learn | andle people | requent | anahle | inthusiastic | inobserved | xcellent | apid | lependable | ragmented | fficiant | concentration | congenial | noods | orogressive | rust | Javdreaming at w | | time | none | ittle | nfrequent | lsual | eldom | oastime moosible | | otten |

| after hours monotony frequent when not busy sometimes easy not often busy unnecessary hurried boredom | summer fame time consuming occasionally bad preoccupied sunny not understandable not possible not possible never never trestful boredom wondering distracting | filicitent filicitent work er quiet or couraged e su: su: rrv sonal prob fiet fing job |
|---|---|--|
| after mono when when when when vhen no bosy unne busy bore | summ fame tume occas bad preoc summ not u not u not u not u not u not c sum not u sum not u sum not u sum not u sum not u sum not u sum not u sum not u sum sum not u sum sum not u sum not u u u u u u u u u u u u u u u u u u u | try r try r brea no wor time time troc time troc tor tor tor tor tor tor tor tor tor tor |

<u>.</u>... _: _: <u>_</u>. ______ • _: _: جا جا جا جا جا ج _____ _____ _____ ______ _

148

154 -

| 0 | |
|----------------------------|--|
| FRIC | |
| Full Text Provided by ERIC | |

| | | | • | | - | NACACOLV |
|-----------------------|--------------|--------------------------|----------------|------------------------|----------------|-------------------------|
| | | hurred | | calculator | :: | helpful |
| Criditeriging work | | | - | mortern | - | knowledne |
| challengirig-work | FREQ | stimulation | ÷ | borrowed | | hinh |
| poop | 'n | | | duntration machine | - | risework |
| infrequent | 'n | fructration lack | | | | |
| limited | 2. | | <u>.</u> | | | |
| many | i n | at times | -' , | | | untair |
| necessary | 10 | ilke more | - , | useiui | - . | Importance |
| important | 10 | likeabie | | tun | <u> </u> | meaningrui |
| | i - | endless | - | typewriter | - | definitely |
| not too many | | secondary | - | very necessary | - | unrelated |
| seidom | <u>.</u> | challenge | - | needed | - - | neatness |
| none | - | could be better | 1. | phones | ť | So |
| restricted | | confidence | - | desk | - | very good |
| syewie | , | thought provoking | - | copy machine | - | fair |
| charts | . | exciting | - | rooff. | - - | helping students |
| Dil | - | director | - | rulers | - | satisfving |
| to help | - | capable | - - | mind | - | indíspensible |
| generaily | ľ | untimited | : | Dostade | ; | not an issue |
| bids | - | | • | efficient | - | friendly |
| great | - | equipment used on my job | q | paper punch | ; _ ` | acceptable |
| little | - | | | CONVENIENT | · | |
| knowledge | Ļ. | nsed | r HEG | library | ÷ | consciences indirect |
| do exist | - | typewriter | xi i | | | |
| bookkeeping challenge | - | phone | D | terex 4 to onbinote | | |
| desirable | - | excellent | 'n | | <u> </u> | userui |
| | - | boog | ຕ່ | storage | - ` • | aid |
| orrasionally | : . _ | adding machine | ຕ່ | templates | <i>-</i> , | helping |
| | | new | ຕ່ | personality | : | elsewhere |
| experience | <u>-</u> . | necessarv | | mimeographing | ľ. | concernec |
| | <i>-</i> , | adequate | | attra c tive | ŕ | useful work |
| WOLK WELL DONE | Ľ, | | ic | simple | - - | beneficial |
| co-workers | . | | ic | books | Ļ | helping hand |
| day by day | | helnful | ir | card index | . | |
| follow ups | . | Daner | i e | steno machine | - | my supervisor |
| pride in work | | | i c | knowledge | - - | my cunarvient |
| good work relation | - | Important | i | renorts | - | fring super vision |
| unexpected | - | dictaphone | Ż | dirable | - | |
| disappointment | 1. | files | , , , | card file | : . | considerate |
| satisfying | - | postage machine | 2. | | | intelligent |
| handling professor | 1. | old | - | | ÷. | kind |
| to know people | 1. | not enough | - | paper punch | - - | fair |
| competitive | ľ | is good | - | | | goog |
| not much | - | complete | - - | staple | ÷, | thoughtful |
| alwavs | | inadequate | . - | telephone directory | · - | nice |
| hardly | | sufficient | . . | | | great |
| desired | ; | ability | ť | | 01 | knowledgeable |
| increase ability | | some antiquated | - | moral "rightness" FF | FREQ | heipful |
| | : | | | good | 4. | efficient |
| | | | | | | |

 во составляется составляется с с составляется с составл с составляется с соста с составляется с соста с составляется с сост с составляется с соста с составляется с соста с составляется с соста с составляется с соста с составляется с сост с составляется с соста с составляется с составляется с составляется с составляется с составляется с соста с составляется с составляется с составляется с составляется с составляется с составляет с составляется с составляется с составляется с составляется с составля



....

| my supervisor (cont'd) | easy to tal two faced | easy to talk to two faced |
|-------------------------|--|--------------------------------|
| | 1. run 1. pleasant 1. persistent | nt ent |
| | 1. I respect | ct |
| | 1. easy going | 5 Jung |
| | | excellent abilit |
| | | 5 |
| | 1. unjust | |
| | | ъ |
| | 1. agreeable | ble |
| not overbearing | | tands |
| | | pect |
| english major unfair | 1. stable noised | _ |
| | | over worked |
| | | |
| | 1. compe | company poli |
| | 1. company | ilod yne |
| | l. necessary | ary |
| | 1. reasonable | lable |
| understanding | | |
| - | l. good | |
| not manageriai | 1. unfair | 1 |
| | | dyrecaule acod attendar |
| even tempered | 1. Intricate | ate |
| | 1. questi | questionable |
| | 1. unwritten | tten |
| | 1. forms | |
| | | |
| | - | ble |
| | | |
| | nebul | sno |
| 1 | l. some | siliy |
| easy to work with | | Ъţ |
| | | |
| lacks contidence | | 1 |
| | 1. flovible | oy men |
| | | nextore |
| _ | | guuu persuria discorraarina |
| | | fulfin r |
| hard-working | - | eable |
| | | |

| strict action other fair t fair t impo impo stowe dead dead dead dead dead didy | follo bette speed speed speed bene bene bene bene bene bene bene b |
|---|---|
| | を 1915 1915 1915 1915 1917 1917 1917 1917 |
| asy to talk to two faced fun oleasant persistent trespect ar sy going excellent ability rescellent ability trepartial helps unjust hurried agreeable understands no respect stable poised over worked | company policies on m company policies necessary reasonable fair good unfair agreeable good attendance intricate questionable unwritten forms dress unstable many many many many all right fine lenient abide by them flexible good personality discouraging routine changeable |

| freq stead impo less film getti | typi com com com figure cons cons cons follo job follo job stag | |
|--|--|--|
| | 골금같금같금금금금금금금금금금금금금금 일 | |
| strict action indifferent others good fair to good lenient important | show concern some rigid likeable accuracy involved superiors deadlines polite at times unrealistic deadines at times unrealistic enjoyable individual follow directions nice combination better for people steed status temper beneficial boss | to much red tape good instruction limiting expensive not innovative interested use of my abilities use of abilities helpful limited try rewarding keeping records good little always typing adcquate for boss |

| frequent steady important fiess than average fiess than average fieling increases getting things done willingness typing letters complete over competent constantly figuring knowledge knowledge varied challenging potential have more consistently type unnoticed following direction not used fully | job done on time payroll experienced stagnant restricted necessary charting ready unfulfilling good no stimulation no stimulation no stimulation agresable often misused agresable often misused getting along answer telephone frustration openness to help educators like a chance |
|--|---|
|--|---|

150

-

| 0 |
|----------------------------|
| FRIC |
| Full Text Provided by ERIC |

| 151 |
|-----|
|-----|

1 = 17

| ar work (contd) not enough best in of enough best in of enough best in of enough best in of enough concentrate in wised set in wised concentrate in wised concentrate in wised set in wised concentrate in wised concentrate in wised set in wised concented in work concentrate in work concentation in trust concentation in trust concentation | exciting | Stiguin of Private | - | necessar |
|--|---------------------------|---------------------------|----------------|------------|
| company itself searce valued link es 1 super parase valued link es 1 super trust searce in proving searce in proving trust closed in 2 starsfaction in 2 knowing tsuper freedom fsuper in 2 knowing tsuper in 2 knowing taken for granted in 3 self satisfaction in 2 knowing trust closet in proving trust closed in 2 knowing trust closet in proving trust closed in 2 knowing trust in 2 knowing trust in 2 knowing trust in 2 knowing trust in 2 knowing trust convikters in prestance in convikters in prestance in adequate in 2 knowing trust in a set satisfaction in 2 knowing trust in prestance in adequate in trust in adequate in adequate involved in adequate involved in adequate involved in adequate involved in trust in trust | not enough 1. | forget | - | deadline |
| Prase Prase Payment P | company itself 1. | poss | مە | variable |
| a link b link b link b unspoken c cosed c appearance d appearance <lid appearance<="" li=""> d appearance <lid appearance<="" li=""> d appearance <lid< td=""><td>1. Draice</td><td>phone</td><td>-</td><td>excellen</td></lid<></lid></lid> | 1. Draice | phone | - | excellen |
| s interview in the second of t | 1. valued | done fairty | : . | little |
| e inspoken seeng seeng tust tust tust closed in payment self-recognition inproving tust closed inproving takan for granted appreciated inproving takan for granted appreciated takan for granted takan for granted advancement personnel on my job takan takan for granted takan for gr | | pood | * - | able to h |
| eseng trust trust closed in payment seeng formy work in 22 seng trust | | time consuming | - | changing |
| es le le serne closed rust rust rust improving | 1. navment 1 | status | | complete |
| es la closed closed improving improving improving improving improving improving takan for granted improving takan for granted appreciated improving takan for granted appreciated takan for granted appreciated takan for granted perople transfor tra | | allowable | : | high at t |
| es le l'ecognition improving improving improving improving improving improving taken for granted apreciated immodel imm | 1. truct | correct. | | very goo |
| es <u>servace</u> <u>in mproving</u> <u>in mproving</u> <u>in mproving</u> <u>in mproving</u> <u>in mproving</u> <u>in mproving</u> <u>in mproving</u> <u>in 2.5</u> <u>servace</u> <u>self satisfaction</u> <u>appearance</u> <u>in 2.5</u> <u>servace</u> <u>in 2.5</u> <u>servace</u> <u>in 2.5</u> <u>servace</u> <u>in 2.5</u> <u>servace</u> <u>in 2.5</u> <u>servace</u> <u>in 3.3</u> <u>self satisfaction</u> <u>in 2.5</u> <u>servace</u> <u>in 4 rector</u> <u>in 4 rector</u> <u>in 6 director</u> <u>in 10 director</u> <u>in 6 director</u> <u>in 10 director</u> | | control | | some |
| Image: Service of the service of th | | | : - | unahility. |
| Ite output Ite output If or my work If an for granted Ite work FREQ Ite work Freedom Ite work Freedom < | seit-recognition | adrighte | | |
| ifor my work FREQ appreciated attraction in 2 attraction appreciated approving frequent approving advancement apersonnel office services ary boost and advance fREQ approving appreciated approving approving appreciated approving appreciated approving appreciated approving appproving approving approving appproving approving approv | thoughtfulness | unknown | <u> </u> | aun |
| Ifor my work taken for granted n 2 taken for granted n 2 appreciated n 2 knowing n 2 knowing n 2 knowing fsuper 1 self satisfaction 1 treedom 1 1 treetor 1 1 ontitude 1 1 ontitude 1 1 < | 1. improving 1. | seldom | . | mine |
| Normywork Appreciated •work FREQ appreciated •work FREQ people • appreciated 1 • innecessary 1 | • | talk it out | . , | can wor |
| Hoork FREQ people 1 aelf satisfaction 2 self satisfaction 1 appearance 1 self satisfaction 1 appearance 1 supervisor 1 if readom 1 treadom 1 if requent 1 treadom 1 if redom 1 treadom | | all right | <u>_</u> ' | schedule |
| aself satisfaction self satisfaction f super f super | _ | knowledge | - , | assirt |
| f super f super f super f super f super f super f supervisor f readom f morale f readom f readom | ••• | people you contact | - | hectic |
| f super f supervisor i f supervisor i f reedom i supervisor i f reedom f reedom f reedom f reedom f reedom f respect i f requent coworkers i f requent i f respect i coworkers respect i coworkers i f respect i coworkers i f respect i coworkers respect i director office services i director i director on my job f arr on my job f arr f | | tactful | - | no comp |
| f super f supervisor i treedom f requent morale building thankful thankful coworkers the building thankful coworkers the building the boost attrude help director advancement personnel on my job handling of grievance than the boost advancement the boost advancement the boost the boo | | there aren't many | ť | g Ylleusu |
| f super f supervisor i morale building i morale building i morale building i thankful covorkers respect i to covorkers respect i to covorkers respect i to covorkers i to covorke | 2. freedom | willingness to listen | ŕ | controlle |
| unnecessary frequent morale building thankful coworkers respect boost attrude help director advancement personnel office services in numerstanding faire far numerstanding far numer | 1 supervisor | worthless | | knowled |
| frequent morale building thankful coworkers respect boost attrude help director director advancement personnel office services in fair on my job handling of grievances chanels on my job fair tew nunderstanding few non-existent griping be gentle be gentle | 1 unnecessary | non-communications | - . | work lo |
| morale building thankful coworkers respect boost attrude help director director advancement personnel office services n n fair on my job handling of grievance chanels on my job fair tew n n fair tew n n on existent griping be gentle be gentle | 1 frequent | improve | - | own jud |
| thankful coworkers respect boost attitude help director advancement personnel office services n n n n n n n n n n n n n n n n n n n | 1 morale building | able to talk | | boss sets |
| attrude respect boost attrude help director director director advancement personnel office services n fair on my job handling of grievances chanels on my job handling grievance fREO advance frech tew n on my job tew tew n on my job tew tew n on my job tew tew tew tew tew tew tew tew | 1. thankful 1. | tenuous | | uncontr |
| respect boost attitude help director advancement personnel office services n personnel on my job handling of grievances channels channels fr fr fr fr fr fr fr fr fr fr fr fr fr | 1. coworkers 1. | limited | - | other wo |
| boost attitude help director advancement personnel office services n handling of grievances handling grievance channels channels fr fr fr fr fr fr fr fr fr fr fr fr fr | 1. respect 1. | Infrequent | ľ | concenti |
| attitude help director advancement personnel office services n personnel personnel handling of grievances handling grievance channels channels fr fr fr fr fr fr fr fr fr fr fr fr fr | 1. boost 1. | relax | _ .' | nuidne |
| help director advancement advancement personnel advancement personnel personnel handling of grievances handling grievance fREO handling grievance fREO handling grievance fREO handling grievance frec handling grievance frec | 1. attitude 1. | gene | . | confider |
| drector advancement advancement personnel advancement personnel paddling of grievances pandling grievance tair poor tair poor poor poor poor personnel paddling of grievances padequate poor personnel padduate personnel padduate personnel padduate personnel padequate personnel personnel padequate personnel personnel padequate personnel personnel padequate personnel pers | 1. help 1. | friendly | Ļ | possible |
| advancement advancement personnel advances advances personnel pandling of grievances pandling grievance pandling grievance tair poor tair poor | 1, director 1. | handle best way | Ĵ, | enough |
| office services office services n n n n n n n n n n n n n n n n n n n | 1. advancement 1. | petty | - , | lose con |
| a office services handling of grievances handling grievance handling grievance channels fair fair adequate frew frew frew frew frew frew frew fre | 1, personnel 1. | advise | ' . | pushed |
| handling of grievances on my job handling grievance channels far onsibility far adequate few non-existent pe gentle unfar unfar unfar non-existent fill fill fill fill fill fill fill fil | 1. office services 1. | one-sided | | ability |
| a <u>nandling of grievances</u> on <u>my job</u> handling grievance FREQ channels fair involved nadequate few non-existent pe gentle unfair unfair unfair | 1 . | taik | - . • | uneven |
| on my job handling grievance frac channels fair onsibility fair adequate few noor existent noor existent frac few noor existent frac few noor existent frac frac few noor existent frac noor existent frac frac frac frac frac frac frac frac | 1. handling of grievances | | -' - | rusned |
| a handling grievance FREQ handling grievance FREQ and the channels and the | 1. on my job | Lain IL OVER | | |
| and the second s | | | <u> </u> | capable |
| onsibility 1 tair onsibility 1 understanding 2. few adequate 2. involved 1. non-existent 1. be gentle 1. unfair | | | | Importat |
| onsibility 1. understanding 2. 2. 1. nuderstanding 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | fair 22 | SIGW | - . | get over |
| few few adequate involved non-existent griping be gentle i, unfair 1. | | | <u>.</u> . | Inconsis |
| few adequate 2. involved 1. non-existent 1. griping be gentle 1. unfair 1. | D | | <u> </u> | patients |
| adequate 2. Involved 1. non-existent 1. griping 6. be gentle 1. unfair 1. | | agreeadle | - | steady |
| e I involved 1. non-existent 1. griping be gentle 1. unfair 1. | | my control over work pace | pace | conrusin |
| non-existent 1. griping 1. be gentle 1. unfair 1. | | | | Summend |
| be gentle 1. Unfair 1. | | control of pace | | interrup |
| 1. be gentle 1. unfair 1. | | | ýc | desired |
| 1. unfair 1. | be centle | | i c | |
| | 1. Cogenee 1. Infair | speed | N C | attender |
| | | erricient | , K | |

necessary deadlines variable excellent little able to handle complete high at times very good some inability time mine mine can work rapidly some inability time mine mine can work rapidly some nune vork load own judgment boos sets pace work load own judgment boos sets pace vork load own judgment boos sets pace vork load own judgment boos sets pace nucontrollable own judgment boos sets pace vork load own judgment possible enough lose control pushed ability uneven rushed do well capable important get over excited inconsistent patents steady control attendence planning interruptions desired control

~~~~

## REFERENCES

Anastasi, A. Psychological testing. London: Macmillan, 1968.

- Beer, M. Leadership, employee needs, and motivation. Unpublished doctoral dissertation, The Ohio State University, 1964.
- Berman, L. M. <u>Accountability which transcends</u>. Washington, D.C.; Bureau of Elementary and Secondary Education (DHEW/OE), 1972.
- Biogham, W. E. Behavioral outcomes for career education. <u>Proceedings, 29th Rutgers Guidance</u> <u>Conference, New Brunswick, NJ, 1972.</u>
- Bousefield, W. A. The occurrence of clustering in the recall of randomly arranged associates. Journal of General Psychology, 1953, <u>49</u>, 229-240.
- Brandes, B. J. Problems in the evaluation of affective education: A case study. Paper presented at the American Educational Research Association annual meeting, New Orleans, 1973.
- Breer, P., & Lock, E. Task experience as a source of attitudes, Illinois: The Dorsey Press, 1965.
- Brown, G. Affectivity, classroom, climate, and teaching. Washington, D.C.: American Federation of Teachers. Educational Monograph Series No. 6, 1971.
- Carroll, J. B. Review of Osgood, Suci and Tannenbaum, <u>The Measurement of Meaning in Language</u>, 1959, 35, 58-77.
- Career Education Development Task Force, National Institute of Education, Department of Health, Education, and Welfare, Forward plan for career education research and development. Washing:on, D.C.: Author, 1973.

Cramer, P. Word association. New York: Academic Press, 1968.

Dawis, R. V., Lofquist, L. H., & Weiss, D. J. <u>A theory of work adjustment</u>. (Minnesota Studies in <u>Vocational Rehabilitation</u>: XXIII, Bulletin 47). Minneapolis: Industrial Relations Center, April 1968.

Deese, J., Frequency of usage and number of words in free recall: The job of association. <u>Psychological Reports</u>, 1960, <u>7</u>, 337-344.

. On the structure of associative meaning, Psychological Review, 1962, 69, 161-174.



1.58

<u>The structure of associations in language and thought</u>. Baltimore: John Hopkins Press, 1963.

- Edwards, A. <u>Techniques of attitude scale construction</u>. New York: Appleton-Century-Crofts, 1957.
- Gable, R., & Roberts, A. Affective and cognitive correlates of classroom achievement: Research for the counselor. Paper presented at the American Educational Research Association Convention, New Orleans, 1971.
- Garbin, A. P., Salomone, J. J., Jackson, D. P., & Ballweg, J. A. <u>Worker adjustment problems of</u> youth in transition from high school to work. Ohio State University: The Center for Vocational and Technical Education, 1970.
- Garskof, F. E., & Houston, J. P. Measurement of verbal relatedness: An ideographic approach. <u>Psychological Review</u>, 1963, 70, 277-288.
- Gottleib, D. Youth and the meaning of work. University Park; Pennsylvania State University, College of Human Development, 1973.
- Guilford, J., & Gupta, W. <u>Relation of teacher-child congruities to achievement</u>. Paper presented at the annual meeting of the American Educational Research Association Symposium, Chicago, 1972.
- Harmon, H. H. Modern factor analysis. Chicago: University of Chicago Press, 1968.
- Hartup, W. The needs of young children and research: Psychosocial development revisited. <u>Theory Into Practice</u>, 1973, 12, 129-135.
- Henley, N. A psychological study of the semantics of animal terms. Journal of Verbal Learning and Verbal Behavior, 1969, 8, 176-184.
- Herzberg, F., Mausner, B., Peterson, R. O., & Capwell, D. F. Job attitudes: Review of research and opinion. Pittsburgh: Psychological Service of Pittsburgh, 1957.
- Horton, D. C., Marlow, D., & Crowne, D. P. The effects of instructional set and need for social approval on commonality of word association responses. Journal of Abnormal and Social Psychology, 1963, <u>66</u>, 67-72.
- Jenkins, J., & Russell, W. A. Associative clustering during recall. Journal of Abnormal and Social <u>Psychology</u>, 1952, <u>47</u>, 818-821.

Jung, C. G., The association method. American Journal of Psychology, 1910, 21, 219-269.

Johnson, P. Some psychological aspects of subject matter structure. <u>Journal of Educational</u> <u>Psychology</u>. 1967, <u>58</u>, 75-83.



Johnson, S. C. Hierarchical clustering schemes. Psychometrika, 1967, 32, 241-254.

- Kazanas, H. C., & Wolff, L. C. Development of work habits in vocational education-what the literature indicates. Journal of Industrial Teacher Education, 1972, 10, 48-58.
- Kifer, E. <u>The effects of school achievement on the affective traits of the learner</u>. Paper presented at the annual meeting American Educational Research Association, New Orleans, 1973.
- King, L. <u>The relationship of affective changes to cognitive skills development</u>. Paper presented at the meeting of the International Reading Association, Atlantic City, 1971.
- Krathwohl, D., Bloom, S., & Masia, B. <u>Taxonomy of educational objectives</u>. <u>Handbook II:</u> <u>Affective domain</u>. New York: David McKay, 1964.
- Kreitler, S., & Kreitler, H. Dimensions of meaning and their measurement. <u>Psychological Reports</u>, 1968, <u>23</u>, 1307-1329.
- Kuusinen, J. Affective and denotative structures of personality ratings. <u>Journal of Personality</u> and <u>Social Psychology</u>, 1968, 12, 181-169.
- Laffal, J., & Feldman, S. The structure of single word and continuous word association. <u>Journal</u> of Verbal Learning and Verbal Behavior, 1962, 1, 54-61.
- Leonard, W. <u>An investigation of attitude consistency</u>. Paper presented at the American Sociological Association Meeting, New Orleans, 1972.
- Liu, C. C. <u>Testing an empirical procedure for identifying technical associative conceptual structures:</u> <u>Discriminating between student groups by performance and creative thinking on a mobile com-</u> <u>munications technical program</u>. Unpublished doctoral dissertation, University of Minnesota, 1972.
- Lofquist, L. H., & Dawis, R. V. Adjustment to work: A psychological view of man's problems in a work oriented society. New York: Appleton-Century-Crofts, 1969.
- Maslow, A. Motivation and personality. New York: Harper and Brothers, 1954.
- McNeill, D. A study of word association. Journal of Verbal Learning and Verbal Behavior, 1966, 5, 548-557.
- Mead, Michael A. RCMAT-A FORTRAN program to calculate relatedness coefficients among stimulus words by comparing lists of verbal responses to the stimuli. <u>Behavior Science</u>, 1972, <u>17</u>, 568.
- Midjaas, C. The middle school: An opportunity for humanized education. <u>Research in Education</u>, 1971, <u>6</u>, 5, 38. (abstract)
- Miron, M. S. What is it that is being differentiated by the semantic differential? <u>Journal of</u> <u>Personality and Social Psychology</u>, 1969, <u>12</u>, 189-193.



- Murray, N. B. <u>Construction of a Thurstone attitude test</u>. Paper presented at the annual convention of the California Educational Research Association, San Diego, 1971.
- Noble, C. An analysis of meaning. Pscyhological Review, 1952, 59, 421-430.
- Nunnally, J. D., & Hodges, W. F. Some dimensions of individual differences in word association. Journal of Verbal Learning and Verbal Behavior, 1965, <u>4</u>, 82-88.
- Osgood, C. E. On the whys and wherefores of E, P, and A. Journal of Personality and Social Psychology, 1969, 12, 194-199.
- , Suci, G. J., & Tannebaum, P. H. <u>The measurement of meaning</u>. Urbana: University of Illinois Press, 1957.
- O'Toole, J. Work in America. Report of a Special Task Force to the Secretary of Health, Education, and Welfare. Washington, D. C.: Department of Health, Education and Welfare, 1972.
- Peay, E., & Wernander, M. Factors from some multidimensional analyses of job satisfaction. In Robinson, Athanisior and Head. <u>Measures of occupational attitudes and occupational</u> <u>characteristics</u>. (Appendix A to measure of political attitudes). Ann Arbor: Institute for Social Research, University of Michigan, 1969.
- Pollio, H. Some semantic relations among word-associates. <u>American Journal of Psychology</u>, 1962 77, 249-256.
- Pratzner, F. C. <u>Testing an empirical procedure for identifying technical associative conceptual</u> <u>structure:</u> <u>Discriminating between workmen within and between two occupations</u>. Unpublished doctoral dissertation, University of Minnesota, 1969.
- Pucel, D. J. <u>The ability of standardized test instruments to predict training success and employment</u> success. (Project MINI-SCORE, Final Technical Report). Minneapolis: University of Minnesota, Department of Trade and Industrial Education, 1972.
- Rapaport, D., Gill, M., & Schafer, R. <u>Diagnostic psychological testing</u>. Vol. 2. Chicago: Year Book Publications, 1946.
- Roach, D., Dimensions of employee morale. Personnel Psychology, 1958, 11, 419-431.

, & Davis, R. Stability of the structure of employee attitudes: An empirical test of factor invariance. Journal of Applied Psychology, 1973, <u>58</u>, 181-185.

Rotburg, I.C. A method for developing comprehensive categories of meaning. Journal of Verbal Learning and Verbal Behavior, 1968, 7, 589-592.

Roberts, T. B. Seven major foci of affective experiences: A typology for educational design, planning analysis and research. Dekalb, Illinois: Northern Illinois University, 1972.



- Robinson, P., Athanisiou, R., & Head, K. <u>Measures of occupational attitudes and characteristics</u>. Ann Arbor, Michigan: Institute for Social Research, 1969.
- Rosen, S. D., Weiss, D. J., Hendel, D. D., Dawis, R. V., & Lofquist L. H. Occupational reinforcer patterns. (Vol. 2). (Minnesota Studies in Vocational Rehabilitation: XXIX, Bulletin 57). Minneapolis: Industrial Relations Center, April 1972.
- Rouse, R., & Verinis, J. Compound verbal stimuli and word association. <u>Psychological Reports</u>, 1965, <u>17</u>, 403-406.
- Scott, W. E. The development of semantic differential scales as measures of "morale." <u>Personal</u> <u>Psychology</u>, 967, 20, 179-198.
- Sjogen, D. <u>Review and synthesis of research of occupational adaptability</u>. Ohio State University; ERIC Clearinghouse on Vocational and Technical Information, 1971.
- Smith, Brandon B. Testing an empirical procedure for identifying technical associative conceptual structure: Discriminating between flexible and inflexible radio and television repairmen. Unpublished doctoral dissertation, University of Minnesota, 1968.
- Szalay, L. B., & Lysne, D. A. Attitude research for intercultural communication and interaction. <u>The Journal of Communication</u>, 1970, 20, 180-200.
- Terwillinger, R. Free association and familiarity as predictors of affect. Journal of General Psychology, 1964, 70, 3-12.
- Tyler, R. W. Assessing educational achievement in the affective domain. <u>NCME: Measurement in</u> Education, 1973, 4(3), 1-8.
- Utah State Board of Education. Focus on man: A prospectus. Social studies for Utah school. Salt Lake City: Author, 1971.
- Vroom, V. Work and motivation. New York: Wiley, 1964.
- Walther, R. H. The measurement of work-relevant attitudes, a report on the development of a measuring instrument. Final Report. Washington, D.C.: George Washington University, 1970.
- Wight, A. R. <u>Beyond behavioral objectives</u>. Salt Lake City: Interstate Educational Resource Service Center, 1971.
- Wooley, D., & Patatino, M. <u>School administrators view, affective behavior as an educational product</u>. Los Angeles. University of California at Los Angeles, Center for the Study of Evaluation, 1970.
- Wyman, J. B. Test of intellectual, social, and activity interes In L. M. Terman, et al., Genetic Studies of Genius, Vol. I Mental and Physical traits of a trousand gifted children. Palo Alto: Stanford Uriversity Press, 1925.

U.S. GOVERNMENT PRINTING OFFICE 1975-659-387/23 Region No. 5-11

