Revised

NATIONAL GUIDELINES FOR APPRENTICESHIP STANDARDS

for the

INTERNATIONAL UNION OF OPERATING ENGINEERS NATIONAL TRAINING FUND

for the occupations of

OPERATING ENGINEER

(Universal-Equipment Operator)
(Grade and Paving Equipment Operator)
(Plant Equipment Operator)
(Heavy Duty Repairer)

O*NET-SOC CODE: 47-2073.02 RAPIDS CODE: 0365HY

WIND TURBINE TECHNICIAN

O*NET-SOC CODE: 49-9099.02 RAPIDS CODE: 2000HY

GEOTHERMAL AND WELL DRILLING OPERATOR

O*NET-SOC CODE: 47-5021.00 RAPIDS CODE: 2006HY

DEVELOPED IN COOPERATION WITH THE U.S. DEPARTMENT OF LABOR OFFICE OF APPRENTICESHIP

APPROVED AND CERTIFIED BY THE U.S. DEPARTMENT OF LABOR OFFICE OF APPRENTICESHIP

BY:

JOHN V. LADD, ADMINISTRATOR
OFFICE OF APPRENTICESHIP

CERTIFICATION DATE:

CERTIFICATION NUMBER: C-82873

FOREWORD

The International Union of Operating Engineer National Training Fund (IUOE NTF) recognizes the need for structured training programs to maintain the high level of skill and competence demanded in the occupation of Operating Engineer. Registered apprenticeship is the most practical and sound training system available to meet that need, to develop individuals into skilled journeyworkers, and to ensure industry an adequate supply of skilled workers.

Title 29, Code of Federal Regulations (CFR), part 29, outlines the requirements for registration of acceptable apprenticeship programs for Federal purposes, and sets forth labor standards that safeguard the welfare of apprentices. Such registration may be by the U. S. Department of Labor, Office of Apprenticeship (OA), or by a State Apprenticeship Agency recognized by the OA as the appropriate body in that State for approval of local apprenticeship programs for Federal purposes. Title 29, CFR, part 30 sets forth the requirements for equal employment opportunity in apprenticeship to which all registered apprenticeship programs must adhere.

The purpose of these National Guidelines for Apprenticeship Standards (National Guideline Standards) is to provide policy and guidance to local Joint Apprenticeship Committees (JACs) in developing these Standards for Apprenticeship for local approval and registration. These National Guidelines Standards developed by the IUOE NTF are certified by the U. S. Department of Labor, OA as substantially conforming to the requirements of Title 29, CFR parts 29 and 30. State Apprenticeship Agencies recognized by the OA to register local programs, and/or local laws and regulations, may impose additional requirements that must be addressed in the local apprenticeship standards.

Local Standards of Apprenticeship must be developed and registered by each local JAC that undertakes to carry out an apprenticeship training program. The local Standards of Apprenticeship will be the local JAC's written plan outlining all terms and conditions for the recruitment, selection, employment, training, and supervision of apprentices as subscribed to by the JAC, and must meet all the requirements of the Registration Agency.

The establishment of local apprenticeship programs under these National Guideline Standards will provide the Sponsor with a skilled and versatile work force at each of its locations by providing apprentices the opportunity to become journeyworkers through an organized and properly supervised program of training, practical experience and related instruction.

IUOE NTF

The IUOE NTF is charged with development of National Guidelines for Apprenticeship Standards and having them certified by the U. S. Department of Labor, Office of Apprenticeship, for use by local JACs.

The duties of the IUOE NTF include:

Assist and advise the local JACs on accepted practices for furthering sound apprenticeship procedures at the local level.

Act in advisory capacity to local JACs, and interpret the meaning and purpose of any clauses contained within the National Guideline Standards.

Meet on call of the co-chairs, to review the progress on apprenticeship in the industry.

Review local apprenticeship standards for conformity with the National Guideline Standards.

In general, to encourage and enforce the adoption and application at the local level of sound apprenticeship practices.

Except as otherwise specifically provided for in the National Guideline Standards, any disputes arising out of the application of the provisions of a local program, which are not resolved by the local JAC, will be subject to the established grievance procedure. By mutual agreement, the parties may waive the steps of the grievance procedure and refer a grievance directly to arbitration. However, complaints alleging violation of a sponsor's nondiscrimination and affirmative action responsibilities must be handled according to the procedures set forth under Title 29 CFR part 30.

<u>DEVELOPMENT OF AFFIRMATIVE ACTION PLAN AND SELECTION</u> PROCEDURES

Equal employment opportunity is required of every registered apprenticeship program. Such requirements apply to the recruitment, selection, employment, and training of apprentices throughout their apprenticeship.

Those programs with five or more apprentices, or where there is a likelihood of five or more apprentices, must have a written Affirmative Action Plan and Selection Procedures that is approved by the Registration Agency as part of the Standards of Apprenticeship.

A sample Affirmative Action Plan and Selection Procedures are attached.

Representatives of the Registration Agency are available to assist the local JAC in developing their Standards of Apprenticeship, Affirmative Action Plan and Selection Procedures using the sample provided. Once developed, the Standards of Apprenticeship, as well as the Affirmative Action Plan and Selection Procedures must be submitted to the Registration Agency for approval and registration.

OFFICIAL ADOPTION OF NATIONAL GUIDELINES FOR APPRENTICESHIP STANDARDS:

IUOE National Training Fund, hereby offic for Apprenticeship Standards on this 20011.	
GENERAL PRESIDENT	
International Union of Operating Engineers, AFL-CIO	
EXECUTIVE DIRECTOR	

(SAMPLE)

STANDARDS OF APPRENTICESHIP DEVELOPED BY

(NAME OF LOCAL JAC)

FOR THE OCCUPATION (s) OF

•

APPROVED BY

(REGISTRATION AGENCY)

These "model" National Guidelines for Apprenticeship Standards are an example of how to develop apprenticeship standards that will comply with Title 29, CFR parts 29 and 30 when tailored to a sponsor's apprenticeship program. These model Standards do not create new legal requirements or change current legal requirements. The legal requirements related to apprenticeship that apply to registered apprenticeship programs are contained in 29 U.S.C. 50 and Title 29, CFR parts 29 and 30. Every effort has been made to ensure that the information in the model Apprenticeship Standards is accurate and up-to-date.

TABLE OF CONTENTS

	Page	
Foreword	i	ii
Definitions	i	٧
050710111		
SECTION I.	Program Administration	
SECTION II.	Equal Opportunity Pledge	
SECTION III.	Affirmative Action Plan	
SECTION IV.	Qualifications for Apprenticeship	
SECTION V.	Selection of Apprentices	
SECTION VI.	Apprenticeship Agreement	
SECTION VII.	Ratio of Apprentices to Journeyworkers	4
SECTION VIII.	Term of Apprenticeship	
SECTION IX .	Probationary Period	
SECTION X.	Hours of Work	
SECTION XI.	Apprentice Wage Progression	
SECTION XII.	Credit for Previous Experience	6
SECTION XIII.	Work Experience	
SECTION XIV.	Related Instruction	6
SECTION XV.	Safety and Health Training	7
SECTION XVI.	Supervision of Apprentices	7
SECTION XVII.	Records and Examinations	8
SECTION XVIII.	Maintenance of Records	8
SECTION XIX.	Certificate of Completion of Apprenticeship	9
SECTION XX.	Notice to Registration Agency	9
SECTION XXI.	Cancellation and Deregistration	9
SECTION XXII.	Amendments and Modifications 1	
SECTION XXIII.	Adjusting Differences/Complaint Procedure 1	0
SECTION XXIV.	Collective Bargaining Agreement	1
SECTION XXV.	Transfer of an Apprentice and Training Obligation 1	1
SECTION XXVI.	Responsibilities of the Apprentice	2
SECTION XXVII.	Consultants 1	
SECTION XXVIII.	Signature Page Adopting Apprenticeship Standards 1	
Appendix A - Samp	le Work Process Schedules and Related Instruction Outline	

- Appendix B AER Sponsor Manual and Sample Apprenticeship Agreement Appendix C Template Affirmative Action Plan Appendix D Qualifications and Selection Procedures

FOREWORD

These [INSERT EMPLOYERS NAMES OR EMPLOYER GROUP NAME OR ASSOCIATION] Apprenticeship Standards have as their objective, the training of (INSERT OCCUPATIONS OR INDUSTRY) skilled in all phases of the industry. The Sponsor recognizes that in order to accomplish this, there must be well-developed on-the-job learning combined with related instruction.

This recognition has resulted in the development of these Standards of Apprenticeship. They were developed in accordance with the basic standards recommended by the U.S. Department of Labor, Office of Apprenticeship, as a basis from which the Sponsor can work to establish an apprenticeship training program that meets the particular needs of the area.

DEFINITIONS

<u>APPRENTICE</u>: Any individual employed by the employer meeting the qualifications described in the Standards of Apprenticeship who has signed an Apprenticeship Agreement with the local Joint Apprenticeship Committee (JAC) providing for training and related instruction under these Standards, and who is registered with the Registration Agency.

<u>APPRENTICESHIP AGREEMENT</u>: The written agreement between the apprentice and the local JAC setting forth the responsibilities and obligations of all parties to the Apprenticeship Agreement with respect to the Apprentice's employment and training under these Standards. Each Apprenticeship Agreement must be registered with the Registration Agency.

<u>APPRENTICE ELECTRONIC REGISTRATION (AER)</u>: Is an electronic tool that allows for instantaneous transmission of apprentice data for more efficient registration of apprentices and provides Program Sponsors with a faster turnaround of their submissions and access to their apprenticeship program data.

<u>CERTIFICATE OF COMPLETION OF APPRENTICESHIP</u>: The Certificate of Completion of Apprenticeship issued by the Registration Agency to those registered apprentices certified and documented as successfully completing the apprentice training requirements outlined in these Standards of Apprenticeship

<u>COLLECTIVE BARGAINING AGREEMENT</u>: The negotiated agreement between the Union and signatory employer that sets forth the terms and conditions of employment.

COORDINATOR: Means the person designated by the local JAC to perform the duties stated in the standards of apprenticeship.

ELECTRONIC MEDIA: Media that utilize electronics or electromechanical energy for the end user (audience) to access the content; and includes, but is not limited to, electronic storage media, transmission media, the Internet, extranet, lease lines, dial-up lines, private networks, and the physical movement of removable/transportable electronic media and/or interactive distance learning.

EMPLOYER: Means any person or organization employing an apprentice whether or not such person or organization is a party to an Apprenticeship Agreement with the apprentice.

HYBRID OCCUPATION: The hybrid approach measures the individual apprentice's skill acquisition through a combination of specified minimum number of hours of on-the-job-learning and the successful demonstration of competency as described in a work process schedule. (See Attachment A)

JOB CORPS CENTERS: Any of the Federally-funded Job Corps Centers throughout the U.S. and Puerto Rico. Job Corps annually serves approximately 65,000 youth and young adults between 16-24 years of age. Sponsors who wish to hire Job Corps graduates trained in any occupation covered under these Standards, and who meets the minimum qualifications for apprenticeship, may do so via the *Direct Entry* provision described in *Appendix D Selection Procedures*. (if applicable)

JOINT APPRENTICESHIP COMMITTEE (JAC): A JAC comprised of an equal number of representatives appointed by the Union and by the Employer in whose name these Standards of Apprenticeship will be registered.

<u>JOURNEYWORKER</u>: A worker who has attained a level of skill, abilities and competencies recognized within an industry as having mastered the skills and competencies required for the occupation. (Use of the term may also refer to a mentor, subject matter expert or other skilled worker who has documented sufficient skills and knowledge of an occupation, either through formal apprenticeship or through practical on-the-job experience and formal training.)

<u>O*NET-SOC CODE</u>: The Occupational Information Network (O*NET) codes and titles are based on the new Standard Occupational Classification (SOC) system mandated by the federal Office of Management and Budget for use in collecting statistical information code. The O*NET classification uses an 8-digit O*NET-SOC code. Use of the SOC classification as a basis for the O*NET codes ensures that O*NET information can be readily linked to labor market information such as occupational employment and wage data at the national, State, and local levels.

<u>ON-THE-JOB LEARNING (OJL)</u>: Tasks learned on the job in which the apprentice must become proficient before a completion certificate is awarded. The learning must be through structured, supervised work experience.

PROGRAM SPONSOR: The local JAC in whose name the Standards of Apprenticeship will be registered, and which will have the full responsibility for administration and operation of the apprenticeship program.

PROVISIONAL REGISTRATION: Means the 1-year initial provisional approval of newly registered programs that meet the required standards for program registration, after which program approval may be made permanent, continued as provisional, or rescinded following a review by the Registration Agency, as provided for in the criteria describe in §29.3 (g) and (h).

REGISTERED APPRENTICESHIP INFORMATION DATA SYSTEM (RAPIDS): The Federal system which provides for the automated collection, retention, updating, retrieval and summarization of information related to apprentices and apprenticeship programs.

REGISTRATION AGENCY: Means the U.S. Department of Labor, Office of Apprenticeship or a recognized State Apprenticeship Agency that has responsibility for registering apprenticeship programs and apprentices; providing technical assistance; conducting reviews for compliance with Title 29, CFR parts 29 and 30 and quality assurance assessments.

RELATED INSTRUCTION: An organized and systematic form of instruction designed to provide the apprentice with the knowledge of the theoretical and technical subjects related to the apprentice's occupation. Such instruction may be given in a classroom, through occupational or industrial courses, or by electronic media or other forms of self-study approved by the Registration Agency.

STANDARDS OF APPRENTICESHIP: This entire document including all appendices and attachments hereto, and any future modifications or additions approved by the Registration Agency.

SUPERVISOR OF APPRENTICE(S): An individual designated by the program sponsor to supervise or have charge and direction of an apprentice.

TRANSFER: A shift of apprenticeship agreement from one program to another or from one employer within a program to another employer within that same program, where there is agreement between the apprentice and the affected apprenticeship committee or program sponsor

<u>UNION</u>: Any of the Local Unions affiliated with the International Union of Operating Engineers, and which is party to an appropriate labor agreement with employer(s).

<u>SECTION I. - PROGRAM ADMINISTRATION</u> (SAMPLE)

The Local Joint Apprenticeship Committee (JAC) in whose name these Standards of Apprenticeship are registered shall be composed of an equal number of representatives appointed by the employer and the union.

The local JAC shall be responsible for:

- a. Establishing and registering Standards of Apprenticeship with the Registration Agency, and ensuring adherence to them.
- b. Establishing and maintaining rules and requirements governing the policies, administration, supervision, and training of apprentices. The rules and requirements shall be in conformity with the collective bargaining agreement and with these Apprenticeship Standards. A copy of such rules and requirements, and any changes to them, shall be provided to the Registration Agency and the apprentice.
- c. Determining the need for new apprentices, including when apprenticeship openings will be available and selecting apprentices in accordance with the Selection Procedures attached hereto and made a part of the Apprenticeship Standards.
- d. Initiating and signing all Apprenticeship Agreements for apprentices and forwarding them to the Registration Agency for approval and registration. In addition, the local JAC will notify the Registration Agency and other appropriate parties of the cancellation, suspension, extension, reinstatement, or completion of apprentices.
- e. Arranging for apprentices to get the required on-the-job learning and related technical instruction that will provide them with the diversity of training delineated in the attached Work Process Schedule and Related Instruction Outline.
- f. Monitoring and evaluating apprentices' progress, including the review of apprentices' records to insure apprentices are fulfilling their responsibilities under the program. The local JAC will review, approve and document all apprentice actions including hours, content, and progress of training on the job and in related instruction; step progressions; disciplinary actions; poor evaluations; corrective action plans; successful completions; cancellations; and any other performance or attendance-related issues. Written minutes of the meeting will be kept.
- g. Hearing and adjusting complaints regarding Apprenticeship Agreement violations.

- h. Certifying the apprentice has completed both the required on-the-job learning and related technical instruction, and submitting such certification to the Registration Agency with request for issuance of the Certificate of Completion of Apprenticeship.
- i. Notifying the appropriate Registration Agency of all new apprentices to be registered, credit granted, suspensions for any reason reinstatements, extensions, completions and cancellations with explanation of causes and notice of completions of Apprenticeship Agreements.
- j. The apprentice will be provided with a copy of the written rules and policies and will sign an acknowledgment receipt of same. This procedure will be followed whenever revisions or modifications are made to the rules and policies.

<u>SECTION II. - EQUAL OPPORTUNITY PLEDGE</u> - Title 29 CFR 29.5(b)(21) and 30.3(b)

The recruitment, selection, employment, and training of apprentices during their apprenticeship, shall be without discrimination because of race, color, religion, national origin, or sex. The JAC will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required under Title 29 of the Code of Federal Regulations (CFR), part 30, as amended (insert state regulations here, if applicable).

<u>SECTION III. - AFFIRMATIVE ACTION PLAN</u> - Title 29 CFR 29.5(b)(21) and 30.4

If the Sponsor employs five or more apprentices, the local JAC will adopt an Affirmative Action Plan and Selection Procedures as required under Title 29, CFR part 30. It will be attached as Appendix C.

<u>SECTION IV. - QUALIFICATIONS FOR APPRENTICESHIP</u> – Title 29 CFR 29.5(b)(10) (*EXAMPLES*)

Applicants will meet the following minimum qualifications:

A. Age

Apprentices must not be less than 18 years of age.

B. Education

Although a high school degree or GED equivalency is not required to apply to the apprenticeship program, either one or the other is preferred.

Regardless, an applicant accepted into the apprenticeship program who lacks either must obtain a GED or high school diploma within the 1000 hour probationary period. Failure to obtain a GED or high school diploma within this time frame will terminate the apprenticeship agreement.

An applicant who is seventeen (17) years of age and is participating in a school-to-work program or equivalent and who otherwise meets all qualifications may be rated and ranked and placed on the list of eligible applicants. Such an applicant must be eighteen (18) years of age prior to being accepted into the apprenticeship program.

Applicants must submit a DD-214 to verify military training and/or experience if they are a veteran and wish to receive consideration for such training/experience.

C. Physical

Applicants will be physically capable of performing the essential functions of the apprenticeship program, with or without a reasonable accommodation, and without posing a direct threat to the health and safety of the individual or others. Applicants will pass a [physical agility test, fitness test, or screen for the current illegal use of drugs (select all, some, or none if applicable)] on acceptance into the program and prior to being employed.

D. Aptitude Test

Individual local JACs may elect to have an aptitude test as part of the selection process.

SECTION V. - SELECTION OF APPRENTICES – Title 29 CFR 30.5

Selection into the apprenticeship program will be in accordance with the selection procedures made a part of these Standards (Appendix D).

<u>SECTION VI. - APPRENTICESHIP AGREEMENT</u> – Title 29 CFR 29.3(d) and (e) and 29.5(b)(11)

After an applicant for apprenticeship has been selected, but before employment as an apprentice or enrollment in related instruction, the apprentice will be covered by a written apprenticeship agreement (Appendix B) signed by the local JAC and the apprentice and approved by and registered with the Registration Agency. Such agreement will contain a statement making the terms and conditions of these standards a part of the agreement as though expressly written therein. A copy of each Apprenticeship Agreement will be furnished to

the apprentice, the local JAC, the Registration Agency, and the employer and the union, if appropriate.

An additional copy of the Apprenticeship Agreement will be provided to the Veteran's State Approving Agency for those veteran apprentices desiring access to any benefits to which they are entitled.

Prior to signing the Apprenticeship Agreement, each selected applicant will be given an opportunity to read and review these Standards, the local JAC's written rules and policies, the Apprenticeship Agreement and the sections of the Collective Bargaining Agreement (CBA) that pertain to apprenticeship.

The Registration Agency will be advised within forty-five (45) days of the execution of each Apprenticeship Agreement and will be given all the information required for registering the apprentice.

<u>SECTION VII. - RATIO OF APPRENTICES TO JOURNEYWORKERS</u>- Title 29 CFR 29.5(b)(7)

A numeric ratio of apprentices to journeyworkers consistent with proper supervision, training, safety, and continuity of employment and applicable provisions in collective bargaining agreements, except where such ratios are expressly prohibited by the collective bargaining agreements. The ratio language must be specific and clearly described as to its application on the job site, workforce, department or plant. The ratio of apprentices to journeyworkers will be **(INSERT NUMBER)** apprentices to **(INSERT NUMBER)** journeyworkers.

SECTION VIII. - TERM OF APPRENTICESHIP - Title 29 CFR 29.5(b)(2)

The term of the occupations will be a minimum of three (3) years with an on-the-job learning (OJL) attainment of not less than 4,000 hours of OJL supplemented by the required hours of related instruction shall be a minimum of 472 hours (Operating Engineer), 636 hours (Wind Turbine Technician), and 472 hours (Geothermal and Well Drilling Operator) as stated on the Sample Work Process and Related Instruction Outlines (Appendix A). Full credit will be given for the probationary period.

SECTION IX. - PROBATIONARY PERIOD - Title 29 CFR 29.5(b)(8), (b)(20)

All applicants selected for apprenticeship will serve a probationary period of not less than the 6 months or 1000 hours of OJL.

During the probationary period either the apprentice or the local JAC may terminate the Apprenticeship Agreement, without stated cause, by notifying the other party in writing. The records for each probationary apprentice will be reviewed prior to the end of the probationary period. Records may consist of periodic reports regarding progression made in both the OJL and related instruction, and any disciplinary action taken during the probationary period.

Any probationary apprentice evaluated as satisfactory after a review of the probationary period will be given full credit for the probationary period and continue in the program.

After the probationary period the Apprenticeship Agreement may be canceled at the request of the apprentice, or may be suspended or canceled by the JAC for reasonable cause after documented due notice to the apprentice and a reasonable opportunity for corrective action. In such cases, the JAC will provide written notice to the apprentice and to the Registration Agency of the final action taken.

SECTION X. - HOURS OF WORK

Apprentices will generally work the same hours as journeyworkers, except that no apprentice will be allowed to work overtime if it interferes with attendance in related instruction classes.

Apprentices who do not complete the required hours of OJL during a given segment will have the term of that segment extended until the required number of hours of training are accrued.

<u>SECTION XI. - APPRENTICE WAGE PROGRESSION</u> – Title 29 CFR 29.5(b)(5)

Apprentices will be paid a progressively increasing schedule of wages during their apprenticeship based on the acquisition of increased skill and competence on the job and in related instruction. Before an apprentice is advanced to the next segment of training or to journeyworker status, the local JAC will evaluate all progress to determine whether advancement has been earned by satisfactory performance in their OJL and in related instruction courses. In determining whether satisfactory progress has been made, the JAC will be guided by the work experience and related instruction records and reports.

The progressive wage schedule will be an increasing percentage of the journeyworker wage rate as established in the CBA. The percentages that will be applied to the applicable journeyworker rate are shown on the attached Sample Work Process Schedule and Related Instruction Outline (Appendix A). In no case will the starting wages of apprentices be less than that required by any minimum wage law which may be applicable.

<u>SECTION XII. - CREDIT FOR PREVIOUS EXPERIENCE</u> - Title 29 CFR 29.5(b)(12) and 30.4(c)(8)

The JAC may grant credit towards the term of apprenticeship to new apprentices who demonstrate previous acquisition of skills or knowledge equivalent to that which would be received under these Standards.

Apprentice applicants seeking credit for previous experience gained outside the supervision of the local JAC must submit the request at the time of application and furnish such records, affidavits, and other (insert requirements) to substantiate the claim. Applicants requesting such credit who are selected into the apprenticeship program will start at the beginning wage rate. The request for credit will be evaluated and a determination made by the local JAC during the probationary period when actual on-the-job and related instruction performance can be examined. Prior to completion of the probationary period, the amount of credit to be awarded will be determined after review of the apprentice's previous work and training/education record and evaluation of the apprentice's performance and demonstrated skill and knowledge during the probationary period.

An apprentice granted credit will be advanced to the wage rate designated for the period to which such credit accrues. The Registration Agency will be advised of any credit granted and the wage rate to which the apprentice is advanced.

The granting of advanced standing will be uniformly applied to all apprentices.

SECTION XIII. - WORK EXPERIENCE - Title 29 CFR 29.5(b)(3) and 30.8

During the apprenticeship the apprentice will receive such OJL (seat time) and related instruction in all phases of the occupation necessary to develop the skill and proficiency of a skilled journeyworker. The OJL will be under the direction and guidance of qualified journeyworkers.

SECTION XIV. - RELATED INSTRUCTION - Title 29 CFR 29.5(b)(4)

During each segment of training each apprentice is required to participate in coursework related to the job as outlined in Appendix A. For each occupation, the recommended term of apprenticeship will include no less than 144 hours of related instruction divided between 40 hours related technical instruction and 104 hours practical training (skill training or seat-time) at the facility dedicated to training each apprentice for the Operating Engineer, Wind Turbine, Technician, and Geothermal and Well Drilling Operator for each year of the apprenticeship. Apprentices agree to take such courses as the JAC deems advisable. The local JAC will secure the instructional aids and equipment it deems necessary to provide quality instruction. In cities, towns or areas having no vocational school or other schools that can furnish related instruction; the apprentice may be

required to take an alternate form of instruction that meets the approval of the JAC and Registration Agency.

Apprentices (Local JAC inserts "will" or "will not") be paid for hours spent attending related instruction classes.

If applicable, the JAC will inform each apprentice of the availability of college credit through the (insert the names of educational institutions which will offer college credit).

Any apprentice who is absent from related instruction classes, unless officially excused, will satisfactorily complete all course work missed before being advanced to the next period of training. In cases of failure of an apprentice to fulfill the obligations regarding related instruction (or OJL) training without due cause, the local JAC will take appropriate disciplinary action and may terminate the Apprenticeship Agreement after due notice to the apprentice and opportunity for corrective action.

To the extent possible, related instruction will be closely correlated with the practical experience and training received on the job. The local JAC will monitor and document the apprentice's progress in related instruction classes.

The local JAC will secure competent instructors whose knowledge, experience, and ability to teach will be carefully examined and monitored. If applicable, when possible, the local JAC may require the instructors to attend the (insert names of institutions that will provide training).

SECTION XV. - SAFETY AND HEALTH TRAINING - Title 29 CFR 29.5(b)(9)

All apprentices will receive instruction in safe and healthful work practices both on-the-job and in related instruction that are in compliance with the Occupational Safety and Health Standards promulgated by the Secretary of Labor under 29 U.S.C. 651 et seq., as amended, dated December 29, 1970, and subsequent amendments to that law, or State Standards that have been found to be at least as effective as the Federal Standards.

Apprentices will be taught that accident prevention is very largely a matter of education, vigilance, and cooperation and that they should strive at all times to conduct themselves in their work to ensure their own safety and that of their fellow workers.

<u>SECTION XVI. - SUPERVISION OF APPRENTICES</u> - Title 29 CFR 29.5(b)(14)

The local JAC and employer will be responsible for the training of the apprentice on the job. Apprentices will be under the general supervision of the employer

and under the direct supervision of the journeyworker to whom they are assigned. The supervisor of apprentice(s) designated by the employer shall, with the advice and assistance of the local JAC be responsible for the apprentice's work assignments ensuring the apprentice is working under the supervision of a skilled journeyworker, evaluation of work performance, and completion and submittal of progress reports to the local JAC.

No apprentice will be allowed to work without direct journeyworker supervision.

SECTION XVII. - RECORDS AND EXAMINATIONS - Title 29 CFR 29.5(b)(6)

Each apprentice may be responsible for maintaining a record of his/her work experience/training on-the-job and in related instruction and for having this record verified by his/her supervisor at the end of each week. The apprentice will authorize an effective release of their completed related instruction records from the local school authorities to the local JAC. The record cards and all data, written records of progress evaluations, corrective and final actions pertaining to the apprenticeship, will be maintained by and will be the property of the local JAC. This record will be included in each apprentice's record file maintained by the local JAC.

Before each period of advancement, or at any other time when conditions warrant, the local JAC will evaluate the apprentice's record to determine whether he/she has made satisfactory progress. If an apprentice's related instruction or on-the-job progress is found to be unsatisfactory, the local JAC may determine whether the apprentice will continue in a probationary status, or require the apprentice to repeat a process or series of processes before advancing to the next wage classification. In such cases, the local JAC will initiate a performance improvement plan with the apprentice.

Should it be found that the apprentice does not have the ability or desire to continue the training to become a journeyworker, the local JAC will, after the apprentice has been given adequate assistance and opportunity for corrective action, terminate the Apprenticeship Agreement.

<u>SECTION XVIII. - MAINTENANCE OF RECORDS</u> - Title 29 CFR 29.5(b)(23) and 30.8(e)

The local JAC will maintain for a period of five (5) years from the date of last action, all records relating to apprentice applications (whether selected or not), the employment and training of apprentices, and any other information relevant to the operation of the program. This includes, but is not limited to, records on the recruitment, application and selection of apprentices, and records on the apprentice's job assignments, promotions, demotions, layoffs, terminations, rate of pay, or other forms of compensation, hours of work and training, evaluations, and other relevant data. The records will permit identification of minority and

female (minority and non-minority) participants. These records will be made available on request to the Registration Agency.

<u>SECTION XIX. - CERTIFICATE OF COMPLETION OF APPRENTICESHIP</u> – Title 29 CFR 29.5(b)(15)

Upon satisfactory completion of the requirements of the apprenticeship program as established in these Standards, the local JAC will so certify in writing to the Registration Agency and request that a Certificate of Completion of Apprenticeship be awarded to the completing apprentice(s). Such requests will be accompanied by the appropriate documentation for both the OJL and the related instruction as may be required by the Registration Agency.

<u>SECTION XX. - NOTICE TO REGISTRATION AGENCY</u> - Title 29 CFR 29.3(2)(d) and (e) and 29.5(b)(19)

The Registration Agency will be notified within forty-five (45) days of all new apprentices to be registered, credit granted, suspensions for any reason, reinstatements, extensions, modifications, completions, cancellations, and terminations of Apprenticeship Agreements and causes.

<u>SECTION XXI. - CANCELLATION AND DEREGISTRATION</u> - Title 29 CFR 29.5(b)(18)

These Standards will, upon adoption by the local JAC be submitted to the Registration Agency for approval. Such approval will be acquired before implementation of the program.

(INSERT NAME OF LOCAL JAC) reserves the right to discontinue at any time the apprenticeship program set forth herein. The Registration Agency will be notified promptly in writing of any decision to cancel the program.

Deregistration of these Standards may be initiated by the Registration Agency for failure of the local JAC to abide by the provisions herein. Such deregistration will be in accordance with the Registration Agency's regulations and procedures.

Within fifteen (15) days of cancellation of the apprenticeship program (whether voluntary or involuntary), the local JAC will notify each apprentice of the cancellation and the effect of same. This notification will conform to the requirements of Title 29, CFR part 29.8.

<u>SECTION XXII. - AMENDMENTS OR MODIFICATIONS</u> - Title 29 CFR 29.5(b)(18)

These Standards may be amended or modified at any time by joint agreement between (INSERT NAME OF SPONSORS AND UNION) provided that no amendment or modification adopted will alter any Apprenticeship Agreement in force at the time without the consent of all parties. Such amendment or modification will be submitted to the local JAC for approval and will then be submitted to the Registration Agency for approval and registration prior to being placed in effect. A copy of each amendment or modification adopted will be furnished to each apprentice to whom the amendment or modification applies.

<u>SECTION XXIII. - ADJUSTING DIFFERENCES/COMPLAINT PROCEDURE</u> - Title 29 CFR 29.5(b)(22), 29.7(k) and 30.11

The local JAC will have full authority to supervise the enforcement of these Standards. Its decision will be final and binding on the employer, the union, and the apprentice, unless otherwise noted below.

If an applicant or an apprentice believes an issue exists that adversely affects his/her participation in the apprenticeship program or violates the provisions of the Apprenticeship Agreement or Standards, relief may be sought through one or more of the following avenues, based on the nature of the issue:

<u>Title 29 CFR 29.7(k)</u>

For issues regarding wages, hours, working conditions, and other issues covered by the CBA, apprentices may seek resolution through the applicable Grievance and Arbitration procedures contained in the Articles of the CBA.

The local JAC will hear and resolve all complaints of violations concerning the Apprenticeship Agreement and the registered Apprenticeship Standards, for which written notification is received within fifteen (15) days of violations. The local JAC will make such rulings as it deems necessary in each individual case and within thirty (30) days of receiving the written notification. Either party to the Apprenticeship Agreement may consult with the Registration Agency for an interpretation of any provision of these Standards over which differences occur. The name and address of the appropriate authority to receive, process and make disposition of complaints is: (Local JAC should insert applicable information here).

Title 29 CFR 30.11

Any apprentice or applicant for apprenticeship who believes that he/she has been discriminated against on the basis of race, color, religion, national origin, or sex, with regard to apprenticeship or that the equal opportunity standards with respect to his/her selection have not been followed in the operation of an apprenticeship program, may personally or through an authorized

representative, file a complaint with the Registration Agency or, at the apprentice or applicant's election, with the private review body established by the program sponsor (if applicable).

The complaint will be in writing and will be signed by the complainant. It must include the name, address, and telephone number of the person allegedly discriminated against, the program sponsor involved, and a brief description of the circumstances of the failure to apply equal opportunity standards.

The complaint must be filed not later than one hundred eighty (180) days from the date of the alleged discrimination or specified failure to follow the equal opportunity standards, and in the case of complaints filed directly with the review body designated by the Program Sponsor to review such complaints, any referral of such complaint by the complainant to the Registration Agency must occur within the time limitation stated above or thirty (30) days from the final decision of such review body, whichever is later. The time may be extended by the Registration Agency for good cause shown.

Complaints of harassment in the apprenticeship program may be filed and processed under Title 29, CFR, part 30, and the procedures as set forth above.

The local JAC will provide written notice of their complaint procedure to all applicants for apprenticeship and all apprentices.

<u>SECTION XXIV. - COLLECTIVE BARGAINING AGREEMENT (CBA)</u> – Title 29 CFR 29.11

Nothing in this part or in any apprenticeship agreement will operate to invalidate:

- a. Any apprenticeship provision in any collective bargaining agreement between employers and employees establishing higher apprenticeship standards; or
- b. Any special provision for veterans, minority persons, or women in the standards, apprentice qualifications or operation of the program, or in the apprenticeship agreement, which is not otherwise prohibited by law, Executive Order, or authorized regulation.

<u>SECTION XXV. - TRANSFER OF AN APPRENTICE AND TRAINING OBLIGATION - Title 29 CFR 29.5(13)</u>

The transfer of an apprentice between apprenticeship programs and within an apprenticeship program must be based on agreement between the apprentice

and the affected apprenticeship committees or program sponsors, and must comply with the following requirements:

- The transferring apprentice must be provided a transcript of related instruction and on-the-job learning by the committee or program sponsor;
- ii. Transfer must be to the same occupation; and
- iii. A new apprenticeship agreement must be executed when the transfer occurs between the program sponsors.

If the local JAC is unable to fulfill his/her training obligation due to lack of work or failure to conform to these Standards the local JAC will make every effort to refer the apprentice with his/her consent to another employer for placement into another registered apprenticeship program. This will provide the apprentice an opportunity for continuous employment and completion of their apprenticeship program. The apprentice must receive credit from the JAC for the training already satisfactorily completed.

SECTION XXVI. - RESPONSIBILITIES OF THE APPRENTICE

Apprentices, having read these Standards formulated by the local JAC and signed an Apprenticeship Agreement with the JAC agree to all the terms and conditions contained therein and agree to abide by the JAC's rules and policies, including any amendments, serve such time, perform such manual training, and study such subjects as the JAC may deem necessary to become a skilled Operating Engineer, Wind Turbine Technician, or Geothermal and Well Drilling Technician.

In signing the Apprenticeship Agreement, apprentices assume the following responsibilities and obligations under the apprenticeship program:

- A. Perform diligently and faithfully the work of the occupation and other pertinent duties assigned by the JAC and the employer in accordance with the provisions of these Standards.
- B. Respect the property of the employer and abide by the working rules and regulations of the employer, union and the local JAC.
- C. Attend and satisfactorily complete the required hours in the OJL and in related instruction in subjects related to the occupation as provided under these Standards.
- D. Maintain and make available such records of work experience and training received on the job and in related instruction as may be required by the local JAC.

- E. Develop and practice safe working habits and work in such a manner as to assure his/her personal safety and that of other workers.
- F. Work for the employer to whom the apprentice is assigned for the completion of apprenticeship, unless reassigned to another employer or the Apprenticeship Agreement is terminated by the local JAC.
- G. Conduct themselves at all times in a creditable and ethical manner, realizing that much time, money, and effort are spent to afford them an opportunity to become a skilled journeyworker.

SECTION XXVII. - TECHNICAL ASSISTANCE

Technical Assistance such as that from the U.S. Department of Labor, Office of Apprenticeship, State Apprenticeship Agencies, and vocational schools--may be requested to advise the local JAC.

The local JAC is encouraged to invite representatives from industry, education, business, private and/or public agencies to provide consultation and advice for the successful operation of their training program.

SECTION STANDARI		- OF	FICIAL	ADOF	PTION	OF	APPRENTICESH	<u> </u>
STANDARI	<u>55</u> .							
•	,	•	•				oprenticeship on onth/Year).	
REPRESE	NTING TH	IE (Nam	e of the	JAC):				
Signature o	of Local J	AC Cha	irpersor		Signa	iture o	f Labor	
Printed Na	me			Print	ed Nan	ne		

Sponsor(s) may designate the appropriate person(s) to sign the Standards on their behalf.

Appendix A

WORK PROCESS SCHEDULE Operating Engineer (Universal Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

This schedule is attached to and a part of these Standards for the above identified occupation.

1. TERM OF APPRENTICESHIP

The term of the occupation shall be 3 years with an OJL attainment of not less than 4000 OJL hours supplemented by the required hours of related instruction.

2. RATIO OF APPRENTICES TO JOURNEYWORKERS

The ratio of apprentices to journeyworkers is established in the applicable collective bargaining agreement, or as agreed by the JAC. This ratio will be defined as no more than one (1) apprentice for every five (5) journeyworkers.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate, as follows or as per the collective bargaining agreement.

3 Year Term:

1 st	60%	1	to	1000	Hours
2 nd	70%	1001	to	2000	Hours
3 rd	80%	2001	to	4000	Hours
4 th	90%	4001	to	6000	Hours

4. <u>SCHEDULE OF WORK EXPERIENCE</u> (See attached Work Process Schedule)

The JAC may modify to the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

5. **SCHEDULE OF RELATED INSTRUCTION** (See attached Related Instruction Outline)

WORK PROCESS SCHEDULE:

Operating Engineer (Universal Equipment Operator)
O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

		Approximat Min.	e Hours Max.
1.	Backhoe - Wheel & Track	640	1000
	 a) Perform preventive maintenance, proper oils and greases, and minor adjustments. b) Assist in changing teeth and adjusting brakes and clutches. c) Operate using the controls, their importance in proper operation, and movement of machine for safety of other employees, digging underground utilities, working the proper distance from overhead power lines, and other equipment working near machine. d) Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson, and welder. 		
2.	Dragline and Other Bucket-Type Equipment	640	1000
	 a) Identify name and use of various draglines and attachments. b) Perform preventive maintenance, using proper oils and greases, and make minor adjustments. c) Assist in changing teeth and cables as well as adjusting frictions, brakes, and clutches. d) Operating using the controls, their importance in proper operation, and movement of machine for safety of other employees, digging underground utilities, working proper distance from overhead power lines, and other equipment working near machine. e) Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson, and welder. 		
3.	Crawler and Wheel-Type Cranes, Derricks, Piledrivers, and Bridge and Gantry Cranes	640	1000
	 a) Identify name and uses of various cranes and derricks. b) Perform preventive maintenance, using proper oils and greases, and make minor adjustments. c) Assist in adjusting frictions, brakes, and clutches. d) Operate using the controls, their importance in proper operation, and movement of the machine for the safety of other employees, working proper distance from overhead power lines, and other equipment working near the machine. 		

- e) Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson and welder. f) Calculate the proper loads that the machine and cables will safely handle. g) Acquire knowledge in operating a live boom and regular operations. h) Give and receive proper hand signals. i) Identify name and uses of piledriving equipment. j) Assist in the programming of LMIs and computer aided accessories for safe and proper set-up and crane operation. 4. Skip and Air Tugger Hoists, Elevators, etc. 150 200 Assist in making proper adjustments on engine-driven hoists and learn to make repairs and adjustments on air tuggers and air compressors. 5. Cableways 150 200 Operate cableways and make adjustments. 6. Motor Crane Driver 225 350 Drive a truck crane and place it for most convenient operation of the crane. Study the Federal CDL laws and obtain a CDL license. 7. Tracked Equipment 205 250 Operate dinkey and locomotive engines. 8. Use of Grade Instruments and Plans 325 500 a) Use instruments and read plans for making grades. b) Read and set grade stakes as well as read plans and instructions. 9. Soil Solidification 225 250 Use principles and methods of soil solidification and handle specialty equipment designed for same. 300 500 10. Miscellaneous Equipment a) Operate, service, and adjust all types of pumps. b) Operate and maintain all pumping equipment, such as
 - d) Operate, service, and adjust all types of mechanical heaters.

systems.

pump crete machine, concrete pump, gunite machine, etc. c) Assist in installing, operating, and maintaining well-point

- e) Operate, service, and adjust all types of electric generating plants.
- f) Operate, service, and adjust all other types of equipment.

11. Auxiliary Equipment

200

250

Assist in rigging and operating attachments used on universal equipment.

12. Maintenance - Cutting and Burning - Greases and Oils

300

500

- a) Use various welders and welding equipment.
- b) Assist in making minor repairs and adjustments.
- c) Assist in welding and cutting.
- d) Gain knowledge and use appropriate greases and oils.

Total Hours

4,000

6,000

These schedules are to be considered flexible and may be revised by the JAC to accommodate any condition and may, with the approval of the JAC, be applied interchangeably among the different apprentice classifications.

RELATED INSTRUCTION OUTLINE

Operating Engineer (Universal Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

First Y	<u>ear</u>	Approximate Hours
b) c) d) e)	Apprenticeship Rules and Regulations Local Union Orientation Issue Books Drug & Alcohol presentation Labor History Diversity	20
Safety		4
	O.S.H.A. Rules and Regulations	
Comm	ercial Drivers License Preparation	8
b)	Testing Requirements Inspection Stipulations Driving Course	
Hazma	nt	40
	40 Hour Certification Course	
Fuels a	and Lubricants	8
	Fuels, Oils, Grease and Equipment Grease Truck and Tools	
Health	Standard First Aid & CPR	8
Basic E	Equipment Skills (technical training and seat time)	96
b) c) d)	Forklift and Skidsteer loader/dozer Crane Backhoe Dragline Forklift Certification	
	Total Hours	184

Secon	<u>d Year</u>	Approximate Hours
Hydrai		20
b) c)	Theory Repair System Changes Maintenance	
Riggin	g	12
	Chart Reading Crane Set-Up Cable Specs	
Hazma	at Re-Certification	8
,	8 Hour Refresher Safety Review	
Basic	Equipment Skills (technical training and seat time	e) 104
b) c) d)	Forklift and skidsteer loader/dozer Crane Backhoe Dragline Clam Forklift Certification	
	Total Hour	s 144

Third Year	Approximate Hours
Welding	10
a) Oxygen and Acetylene Weldingb) Electrical Weldingc) Cutting	
Hazmat Re-Certification	8
a) 8 Hour Refresherb) Safety Review	
Use of Grade Instruments and Plans	16
 a) Transit and Hand Level b) Theodolite c) Leveling Rods d) Measurement Instruments e) Stakes f) Introduction to Global Positioning Systems 	
Mechanical System	6
a) Basic Hydraulicsb) Basic Electricalc) Power Trains	
Equipment Skills (technical training and seat time)	104
 a) Forklift and Skidsteer loader/dozer b) Crane c) Backhoe d) Dragline e) Clam f) Forklift Certification 	

Total Hours 144

WORK PROCESS SCHEDULE Operating Engineer (Grade and Paving Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

This trade schedule is attached to and a part of the Apprenticeship Standards for the above identified occupation.

1. TERM OF APPRENTICESHIP

The term of apprenticeship shall be a period of 3 years (not less than 4000 hours) supplemented by the required hours of related technical instruction.

2. RATIO OF APPRENTICES TO JOURNEYWORKERS

The ratio of apprentices to journeyworkers is established in the applicable collective bargaining agreement, or as agreed to by the Local JAC.

This ratio will be defined as no more than one (1) apprentice for every five (5) journeyworkers.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate, as follows or as per the collective bargaining agreement.

1 st	60%	1	to	1000	Hours
2 nd	70%	1001	to	2000	Hours
3 rd	80%	2001	to	4000	Hours
4 th	90%	4001	to	6000	Hours

- **4.** SCHEDULE OF WORK EXPERIENCE (See attached Work Process Schedule)
- 5. <u>SCHEDULE OF RELATED INSTRUCTION</u> (See attached Related Instruction Outline)

WORK PROCESS SCHEDULE
Operating Engineer (Grade and Paving Equipment Operator)
O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

		Approximate <u>Min.</u>	Hours <u>Max.</u>
1.	Graders	500	700
	 a) Assist in servicing, maintaining, and adjusting the machine. b) Operate and assist in the different types of work the machine d such as fine grading, back sloping, mixing, and laying oil, etc. c) Operate and maintain elevating graders. d) Assist in installing and using different types of laser systems. 	oes,	
2.	Scrapers, self-propelled	300	400
	a) Operate various motor and motor-electric driven machines.b) Make proper cuts and fills to the grade stakes.c) Assist in servicing, maintaining, and repairing the different makes of machines.		
3.	Compaction Equipment	200	300
	Operate different types of rollers and other compaction equipment using different procedures for compacting various materials.		
4.	Tractor-Type Skip Loaders/Hi-Lifts	350	500
	Operate, service, and make minor repairs and adjustments.		
5.	Wheel-Type Tractors, including Forklifts, Lumber Carriers, etc.	250	300
	Assist in servicing, maintaining, and making minor repairs and	adjustments.	
6.	Grade Stakes	400	600
	Check, read, and set grade stakes and read plans.		
7.	Trenching Machines and Backhoes – Wheel & Track	300	500
	Trenching		
	Operate, maintain, and repair all types and sizes of machines.		
	Backhoe – Wheel & Track		

- a) Perform preventive maintenance, proper oils and greases, and minor adjustments.
- b) Assist in changing teeth and adjusting brakes and clutches.

proper distance from overhead power lines, and other equipment working near machine. d) Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson, and welder. 8. Bulldozer 300 450 a) Operate on the different types of work assigned the dozer from pioneer and rough excavation to finish work. b) Assist in making minor adjustments and repairs and work with the mechanic on major repairs. 350 9. Scrapers, Towed 550 a) Operate properly. b) Service, adjust, and change cables on cable-controlled machines. 10. Miscellaneous Equipment 300 500 a) Operate, service, and adjust all types of pumps. b) Operate and maintain all pumping machines, such as pump crete machine, concrete pump, gunite machine, etc. c) Install, operate, and maintain well-point systems. d) Operate, service, and adjust all types of mechanical heaters. e) Operate, service, and adjust all types of electric generating plants. f) Operate, service, and adjust all other types of equipment, air compressors, and the use and operation of all auxiliary equipment. 11. Asphalt and Concrete Paver 400 650 a) Operate and also become familiar with control of mixing time apparatus. b) Assist in making adjustments and repairs and to service machines. c) Operate, set-up, and make mechanical and electronic adjustments to screed. d) Operate, set-up, and make mechanical and electronic adjustments to finishing machine. 12. Special Paving Equipment 250 350 a) Operate, service, and adjust gutter pavers, curb pavers, vibrators, concrete saws, pavement breakers, and similar equipment. b) Operate and make adjustments and repairs to chip spreader. 100 13. Maintenance - Cutting and Burning - Greases and Oils 200

 Operate using the controls, their importance in proper operation, and movement of machine for safety of other employees, digging underground utilities, working the

a) Use various welders and welding equipment.

- b) Assist in making minor repairs and adjustments.
- c) Perform minor welding repair and cutting.
- d) Use proper types of greases and oils.

Total Hours 4000 6000

These schedules are to be considered flexible and may be revised by the JAC to accommodate any condition and may, with the approval of the JAC, be applied interchangeably among the different apprentice classifications.

RELATED INSTRUCTION OUTLINE

Operating Engineer (Grade and Paving Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

<u>First Year</u>	Approximate Hours
Introduction	20
 a) Apprenticeship Rules and Regulations b) Local Union Orientation c) Issue Books d) Drug & Alcohol Presentation e) Labor History f) Diversity 	
Safety	4
O.S.H.A. Rules and Regulations	4
Commercial Drivers License Preparation	8
a) Testing Requirementsb) Inspection Stipulationsc) Driving Course	
Hazmat	40
40 Hour Certification Course	
Fuels and Lubricants	8
a) Fuels, Oils, Grease, and Equipmentb) Grease Truck and Tools	
Health	8
Standard First Aid and CPR	
Basic Equipment Skills (technical training and seat time)	96
 a) Graders b) Scrapers, self-propelled and towed c) Rollers and other compaction equipment d) Tractor-Type Skip Loaders/Hi-Lifts e) Wheel-Type Tractors, Forklifts, Lumber Carriers, etc. f) Trenching Machines and Backhoe- Wheel & Track g) Bulldozer h) Asphalt Paver, Special Paving Equipment, & Concrete Paving i) Forklift Certification 	er
Total Hours	184

Second Year	Approximate Hours
Hydraulics	24
a) Systemsb) Adjustmentsc) Maintenance	
Hazmat Re-Certification	8
a) 8 Hour Refresherb) Safety Review	
Soil Compaction	8
Basic Equipment Skills (technical training and seat time)	104
 a) Graders b) Scrapers, self-propelled and towed c) Rollers and other compaction equipment d) Tractor-Type Skip Loaders/Hi-Lifts e) Wheel-Type Tractors, Forklifts, Lumber Carriers, etc. f) Trenching Machines and Backhoe- Wheel & Track g) Bulldozer h) Asphalt Paver, Special Paving Equipment, & Concrete Paver i) Forklift certification 	
Total Hours	144

Third Year	Approximate Hours
Hazmat Re-Certification	8
a) 8 Hour Refresherb) Safety Review	
Use of Grade Instruments and Plans	24
 a) Transit and Hand Level b) Theodolite c) Leveling Rods d) Measurement Instruments e) Stakes f) Introduction to Global Positioning Systems 	
Mechanical System	8
a) Basic Hydraulics b) Power Trains	
Equipment Skills (technical training and seat time)	104
 a) Graders b) Scrapers, self-propelled and towed c) Rollers and other compaction equipment d) Tractor-Type Skip Loaders/Hi-Lifts e) Wheel-Type Tractors, Forklifts, Lumber Carriers, etc. f) Trenching Machines and Backhoe- Wheel & Track g) Bulldozer h) Asphalt Paver, Special Paving Equipment, & Concrete Paver i) Forklift certification 	
Total Hours	144

WORK PROCESS SCHEDULE Operating Engineer (Plant Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

This trade schedule is attached to and a part of the Apprenticeship Standards for the above identified occupation.

1. TERM OF APPRENTICESHIP

The term of apprenticeship shall be a period of 3 years (not less than 4000 hours) supplemented by the required hours of related technical instruction.

2. RATIO OF APPRENTICES TO JOURNEY WORKERS

The ratio of apprentices to journeyworkers is established in the applicable collective bargaining agreement, or as agreed to by the JAC.

This ratio will be defined as no more than one (1) apprentice for every five (5) journeyworkers.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate, as follows or as per the collective bargaining agreement.

1 st	60%	1	to	1000	Hours
2 nd	70%	1001	to	2000	Hours
3 rd	80%	2001	to	4000	Hours
4 th	90%	4001	to	6000	Hours

4. SCHEDULE OF WORK EXPERIENCE (See attached Work Process Schedule)

5. <u>SCHEDULE OF RELATED INSTRUCTION</u> (See attached Related Instruction Outline.)

WORK PROCESS SCHEDULE

Operating Engineer (Plant Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

1.	Asphalt Plants	Approximate F Min. 700	Hours Max. 1000
	 a) Assist in keeping proper fire under dryer drum to heat and dry aggregates for proper mixing by means of valves or control lever b) Operate handles, levers, and controls that (1) automatically weig dry sand, stone, and asphalt; and (2) dump them into the mixing drum. 		
2.	Batch Plants, Concrete Mixers, and Pugmills	700	1000
	a) Assist in weighing aggregate for concrete.b) Adjust scales for required weight of material.c) Assist in making proper mixes.		
3.	Crushing, Screening, and Washing Plants	700	1000
	 a) Assist in making proper adjustments to crush the size of material desired. b) Make repairs on the equipment. c) Service conveyors. d) Adjust conveyor belts. e) Operate shaker screens to separate the different sizes of materials. f) Change screens to get the desired size of materials. g) Operate a washing plant and sand classifier. 	als.	
4.	Material Loaders	300	400
	a) Operate, service, and adjust various types of front-end loaders, tractors, conveyors, and fork lifts.b) Make minor repairs and adjustments under the supervision of a repairperson.		
5.	Drills	150	300
	a) Operate various types of drills and the care and purpose of sameb) Perform maintenance, running repairs, and replacements on various types of steel and bits.	.	
6.	Maintenance - Cutting and Burning - Greases and Oils	200	200
	a) Assist in making necessary repairs to the equipment under supervision of a heavy duty repairperson or a welder.b) Use proper oils and greases.		

7.		ecting and Dismantling sist in set up and repair all types of plant equipment.	250	350
8.	We	elding, Cutting, and Burning	350	500
	•	Use various welders and welding equipment. Assist in building up and repairing worn parts.		
9.	Ма	aterials	200	550
		e instruments and plans for processing the rious materials.		
10.	Mis	scellaneous Equipment	450	700
	a)b)c)d)e)f)	Operate, service, and adjust all varieties of miscellaneous equipment. Operate and maintain pumping machines, such as pump crete machine, concrete pump, gunite machine, etc. Install, operate, and maintain well-point systems. Operate, service, and adjust all types of mechanical heaters. Operate, service, and adjust all types of electric generating plants. Operate, service, and adjust all types of air compressors and to use and operate all auxiliary equipment.		
		Total Hours	4,000	6,000

These schedules are to be considered flexible and may be revised by the JAC to accommodate any condition and may, with the approval of the JAC, be applied interchangeably among the different apprentice classifications.

RELATED INSTRUCTION OUTLINE

Operating Engineer (Plant Equipment Operator) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

First Year Approximate Hours

b) c) d)	Apprenticeship Rules and Regulations Local Union Orientation Issue Books Drug & Alcohol presentation Labor History Diversity		20
Safety			4
	O.S.H.A. Rules and Regulations		
Comm	ercial Drivers License Preparation		8
b)	Testing Requirements Inspection Stipulations Driving Course		
Hazma	at		40
	40 hour Certification Course		
Fuels	and Lubricants		8
	Fuels, Oils, Grease and Equipment Grease Truck and Tools		
Health	1		8
	Standard First Aid and CPR		
Basic I	Equipment Skills (technical training and seat t	ime)	96
b) c) d)	Forklift and Skidsteer loader/dozer Crane Backhoe Dragline Forklift Certification		
		Total Hours	184

Second Year	Approximate Hours
Hydraulics	16
a) Systemsb) Adjustmentsc) Maintenance	
Use of Grade Instruments and Plans	16
 a) Transit and Hand Level b) Theodolite c) Leveling Rods d) Measurement Instruments e) Stakes f) Introduction to Global Positioning Systems 	
Hazmat Re-Certification	8
a) 8 Hour Refresherb) Safety Review	
Basic Equipment Skills (technical training and seat tim	e) 104
 a) Forklift and Skidsteer Loader/Dozer b) Crane c) Backhoe d) Dragline e) Clam f) Forklift Certification 	
To	otal Hours 144

Third	Year	A	pproximate Hours
Weldir	ng		24
a) b) c)	Oxygen and Acetylene Welding Electrical Welding Cutting		
Hazma	at Re-Certification		8
,	8 Hour Refresher Safety Review		
Mecha	anical System		8
-	Basic Hydraulics Power Trains		
Equip	ment Skills (technical training and seat time)		104
a) b) c) d) e) f)	Forklift and Skidsteer loader/dozer Crane Backhoe Dragline Clam Forklift Certification		
		Total Hours	144

WORK PROCESS SCHEDULE Operating Engineer (Heavy Duty Rerpairer) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

This work process schedule is attached to and a part of the Apprenticeship Standards for the above identified occupation.

1. TERM OF APPRENTICESHIP

The term of apprenticeship shall be a period of 3 years (not less than 4000 hours) supplemented by the required hours of related technical instruction.

2. RATIO OF APPRENTICES TO JOURNEY WORKERS

The ratio of apprentices to journeyworkers is established in the applicable collective bargaining agreement, or as agreed to by the JAC.

This ratio will be defined as no more than one (1) apprentice for every five (5) journeyworkers.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate, as follows or as per the collective bargaining agreement.

1 st	60%	1	to	1000	Hours
2 nd	70%	1001	to	2000	Hours
3 rd	80%	2001	to	4000	Hours
4 th	90%	4001	to	6000	Hours

4. SCHEDULE OF WORK EXPERIENCE (See attached Work Process Schedule)

5. <u>SCHEDULE OF RELATED INSTRUCTION</u> (See attached Related Instruction Outline)

WORK PROCESS SCHEDULE

Operating Engineer (Heavy Duty Repairer)

O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

		Approximate Min.	e Hours <u>Max.</u>
1.	Cleaning and inspecting the parts of all types of equipment	100	100
2.	Cylinder Heads	350	550
a) c) d) e) f) j) k) l) m)	Replacing valve guides. Removing and replacing valve seats. Reaming valve guides. Grinding valve seats with hard-seat grinder. Lapping valves. Checking valves with dial indicator. Installing injector tubes or brass. Replacing Welsh plugs and water test head. Rebushing rocker-arms and reaming bushings. Checking and replacing rocker-arm rollers. Torquing cylinder head bolts. Use of compounds on head gaskets.		

3. Cylinder Blocks and Liners

300 500

- a) Removing and installing cylinder sleeves.
- b) Cleaning and checking water passages.
- c) Checking counterbores for sleeves.
- d) Recutting and straightening counterbores.
- e) Removing and cutting cylinder studs.
- f) Cleaning ring grooves, fitting piston and ring for clearance.
- g) Installing piston pin bushings and fitting piston pins.
- h) Checking rod alignment and bores.
- i) Honing and boring cylinders.
- j) Cleaning oil passages.
- k) Inspecting oil and oil lines.
- I) Checking, removing, and installing timing gears.
- m) Checking main bearing saddles, crank shaft wear and cracks, and radius area.
- n) Reasons for Magnafluxing.
- o) Installing main and rod bearings.
- p) Checking oil clearances.
- q) Torquing main and rod bearings.
- r) Installing cam shaft bushings and line reaming and bearings.
- s) Pressure test oil systems.
- t) Dial indicating run out on fly wheel and housings.

4.		Fuel Systems	300	650
	b) c) d) e) f) g)	Adjusting valve clearances. Installing and adjusting injectors. Checking compression. Checking and adjusting injection and carburetion systems. Care and cleaning of air filters. Timing injection system. Repairing fuel pumps and carburetors. Checking and servicing fuel filtering systems.		
5.		Electrical Systems	400	575
	b) c) d)	Timing electrical systems. Using proper equipment to check electrical systems. Repairing generators and starters. Adjusting voltage regulators. Making up and installing wiring circuits.		
6.		Water Cooling System	200	300
	b) c)	Checking thermostats. Cleaning water passages. Installing new gaskets on radiator tanks. Checking pressures on cooling systems. Adjusting fan belts and friction-driven fan drivers.		
7.		Clutch	400	525
	•	Checking and adjusting clutches. Rebuilding pressure plates. Relining clutch disks. Removing and repairing clutches.		
8.		Transmission and Differentials	375	600
	b) c) d) e) f) g)	Removing and installing transmissions. Testing converters. Rebuilding transmission and torque converters. Adjusting steering clutches. Rebuilding steering clutches. Relining steering clutch bands. Adjusting and installing ball bearings, Timken bearings, and oil seals. Adjusting, inspecting, and replacing differential gears, bearings, and oil seals.		
9.		Final Drive	300	500
	a)	Removing, replacing, and adjusting final drives, axles, gears, bearings, and oil seals.		

- b) Adjusting tracks, wheel bearings, track rollers, and brake lining.
- c) Repairing, servicing, and adjusting air compressors, brake applicators, boosters, valves, and regulators.

10.	Hydraulic Systems	525	700
	Repairing and servicing of cylinders, valves, and power control units.		
11.	Welding	450	450
a b	9, 9		
12.	Repair and Maintenance of self-propelled and Stationary Equipment (exclusive of engines).	300	550
a b		y the industry.	

Total Hours

4,000

6,000

These schedules are to be considered flexible and may be revised by the JAC to accommodate any condition and may, with the approval of the JAC, be applied interchangeably among the different apprentice classifications.

RELATED INSTRUCTION OUTLINE

Operating Engineer (Heavy Duty Repairer) O*NET-SOC CODE: 47-2073-02 RAPIDS CODE: 0365HY

First Year		Approximate Hours
Introdu	uction	20
b) c) d)	Apprenticeship Rules and Regulations Local Union Orientation Issue Books Drug & Alcohol presentation Labor History Diversity	
Safety		4
	O.S.H.A. Rules and Regulations	
Comm	nercial Drivers License Preparation	8
b)	Testing Requirements Inspection Stipulations Driving Course	
Hazma	at	40
	40 Hour Certification Course	
Fuels	and Lubricants	8
	Fuels, Oils, Grease and Equipment Grease Truck and Tools	
Health		8
	Standard First Aid & CPR	
Basic	Equipment Skills (technical training and seat time)	96
b) c) d)	Forklift and Skidsteer Loader/Dozer Crane Backhoe Dragline Forklift Certification	

Total Hours

184

Second Yea	<u>r</u>	Approximate Hours
Use of Weldi	ng Equipment	24
a) Electrb) Acety		
Use of Parts	Manual	8
Order	Parts Pricing	
Hazmat Re-C	Certification	8
a) 8 Hou b) Safet	ır Refresher y Review	
Technical Tra	aining	104
b) Fuel (c) Electr	rical Systems r Cooling System ng	
	Total Hours	144

Third Year		<u>Appro</u>	ximate Hours
Basic Hydraulics			8
Plan reading	and Assembly		8
Electrical 6, 12,	24, 36 Volt		
Torque Spec	3		8
a) Bolt G b) Mater	rading ial Selection		
Hazmat Re-C	ertification		8
a) 8 Hou b) Safety	r Refresher Review		
Engine Applic	cation		8
a) Gas b) Diese	I		
Technical Tra	ining		104
b) Troub c) Electr			
	-	Total Hours	144

WORK PROCESS SCHEDULE

Wind Turbine Technician

O*NET-SOC CODE: 49-9099.02 RAPIDS CODE: 2000HY

DESCRIPTION: Perform general maintenance, operations and inspections on wind turbines and related facilities. General and site specific safety awareness, utilize personal protective equipment, conduct electrical troubleshooting, repair and replacement, follow specific lock out/tag out procedures, mechanical/power trains maintenance, hydraulic troubleshooting and demonstrate climbing proficiency. Conduct visual blade inspection and physical blade repair, bolt torque testing and installation and testing of hardware and software and follow specific driving safety guidelines.

Min/Max Hours

First Aid and Training:

200-300

Basic knowledge of treatment practices for a variety of medical emergencies and emergency rescue.

Safety Training: 335-500

- A. Advanced knowledge of fall protection
- B. Chemical hazards, confined spaces, arc flash
- C. Electrical safety
- D. Emergency response, lockout / tag out
- E. Crane safety and signals
- F. Risk assessment
- G. Defensive driving training
- H. OSHA regulations and standards that pertain to the construction and maintenance of wind turbines and the energy industry.

Equipment and Practices:

400-600

- A. General knowledge of safety regulations and personal protective equipment
- B. Being familiar with proper procedures for care, cleaning, and safe use of hand, electric, hydraulic, pneumatic and mechanical tools
- C. Learning to have an operating knowledge of service manuals, bulletins, and parts books
- D. Instruction on the use of hand tools, measuring tools, timing devices, pressure indicators, vacuum indicators, tachometer, internal/external, depth and protrusion gages, run out indicators, and torque measuring devices incorporated with wind turbine repair

Electrical: 1000-1500

- A. AC electrical theory
- B. DC electrical theory, power generation, lightning protection, transformers, semiconductors, sensors
- C. Power transmission, regulators, series-parallel switches, circuits, circuit protection, electronic controls, wiring, electrically controlled valves, switches, relays, resistors, solenoids, lighting systems, accessory systems, monitor systems, trouble shooting, schematic and print reading
- D. Use of all applicable test instruments and applied electrical calculations.

Hydraulics: 400-600

- A. Fluid power hydraulic theory, reservoirs, pumps,
- B. Filtration systems, motors, accumulators, hoses, tubing, oil coolers, servo valves, relief valves, tubing
- C. Hydrostatic drives, check valves, hold values, control valve and cylinders
- D. Basic knowledge in schematics and system troubleshooting.

Mechanical: 1140-1700

- A. Fasteners, housings, oil analysis, hydrostatic drives planetaries, bearings, shafts, gearbox alignment
- B. Inspection, failure analysis, lubrication, torque procedures, vibration analysis, yaw systems and pitch systems.

Brakes: 130-200

- A. Pads, linings, cylinders, diaphragms, lines
- B. Calipers, hydraulic valves, linkage, reservoirs, controls, pressure switches, valves and chambers.

Blade Inspections and Maintenance:

130-200

- A. Proper inspection, airfoils, rotors, composite repair
- B. Blade construction, assembly, and repair techniques as well as performance, operation and maintenance characteristics.

Computers: 265-400

- A. Basic knowledge of the CPU, monitor, printer, parallel and serial port, USB, Windows
- B. Data acquisition and assessment
- C. Programmable logic control systems, fiber optics, and a basic understanding of Supervisory Control and Data Acquisition systems.

Total Hours 4000-6000

RELATED INSTRUCTION OUTLINE

Wind Turbine Technician

O*NET-SOC CODE: 49-9099.02 RAPIDS CODE: 2000HY

First-Year Safety Electrical Mechanical/Power trains Hydraulics Wind dynamics Blade Inspection	Total Hours:	348 80 100 80 60 20 8
Second-Year Safety Electrical Mechanical/Power trains Hydraulics Wind dynamics Blade Inspection	Total Hours:	144 20 22 32 42 20 8
Third-Year Safety Electrical Mechanical/Power trains Hydraulics Wind dynamics Blade Inspection	Total Hours:	144 20 22 32 42 20 8

WORK PROCESS SCHEDULE Geothermal and Well Drilling Operator O*NET-SOC CODE: 47-5021.00 RAPIDS CODE: 2006HY

Description: Drill boreholes and set wells or loops to a given depth and/or to an aquifer of sufficient flow and quality to meet the expected drinking water, heat exchanger or bearing capacity demands on the bore or well location. Boreholes will be advanced using mechanical drilling equipment utilizing auger, mud or air rotary, down the hole hammer, coring, or sonic percussion drilling methods. Workers are responsible for the safe operation of all capital equipment as well as protecting the environment and public safety from ground water contamination by using prudent drilling, casing, and grouting practices. Drill crews are expected to perform maintained, advance boreholes, set and grout casing, set wells, keep good drill logs, provide accurate samples and data, and perform any other tasks necessary for the completion of the boring or well. Drill crews must be able to determine the right drilling method (see above) for the equipment, and the type of bore hole or well being drilled. After choosing a method the drill crew must be able to enact that method accounting for any variables encountered during the drilling process. Common tasks include digging mud pits, mixing drilling mud, hoisting tooling, taking rock or soil samples, attaching drill string extensions, monitoring ground water encountered, and setting and grouting in wells and geo physical instruments. Workers must have the skill to advance boreholes in a variety of soil and rock conditions, and must have a

basic understanding of geologic and hydrologic conditions and how they affect the drilling

Max/Min Hours

<u>Drill Rig</u>: 1980-3000

a) Perform preventive maintenance, proper oils and greases, and minor adjustments.

process.

- b) Operate using the controls, their importance in proper operation, and movement of machine for safety of other employees, drilling around underground utilities, working the proper distance from overhead power lines, and other equipment working near machine.
- Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson, and welder.
- d) Auguring: Both with solid flight augers and hollow stem augers.
- e) "Direct" Mud Rotary: Using both polymer and bentonite based fluids, filtration control, and the use of additives to solve down hole problems.
- f) Air Rotary: Using air, mist, foam, and "stiff foam" to overcome hole stabilization problems when using air in "non-cohesive" soils.
- g) Reverse Rotary: Air lift and vacuum lift using both polymer and bentonite based fluids to stabilize the hole during "flooded hole drilling."
- h) Direct push: With the installation of monitoring wells and environmental procedures for collection and equipment decontamination.
- i) Cable Tool: Advance holes and casing using drill stem percussion to break up and stir formation in to a solution to be bailed out of the hole.
- i) Sonic: Drill and sample holes using vibration of varying hertz imparted on a

- casing used as a drill stem to break up and liquefy the formation while the casing protects form formation collapse.
- k) Dual rotary: Two rotary heads are employed to drill and case the hole at the same time. The top head drive is used to advance the drill rods and bit while the bottom drive advances the casing with the bit thru the overburden. Once the overburden is cased the top drive operates the same as on a conventional rig.

Backhoe - Wheel & Track:

330-500

- a) Perform preventive maintenance, proper oils and greases, and minor adjustments.
- b) Operate using the controls, their importance in proper operation, and movement of machine for safety of other employees, digging underground utilities, working the proper distance from overhead power lines, and other equipment working near machine.
- c) Perform the movement of heavy drill collars, tooling, as well as digging mud pits and providing drainage to slurry pits.
- d) Apply technical knowledge and assist during major overhauls while working with the operator, heavy duty repairperson, and welder.

<u>Tractor-Type Skid Steers Loaders/Hi-Lifts</u>:

330-500

- a) Perform preventive maintenance, proper oils and greases, and minor adjustments.
- b) Operate on the different types of work assigned the dozer from rough excavation to finish work.
- c) Perform the movement of heavy drill collars, tooling, as well as digging mud pits and providing drainage to slurry pits.
- d) Assist in making minor adjustments and repairs and work with the mechanic on major repairs.

Powered Industrial Trucks:

180-300

- a) Perform preventive maintenance, proper oils and greases, and minor adjustments.
- b) Operate on the different types of work assigned the dozer from rough excavation to finish work.
- c) Perform the movement of heavy drill collars, tooling, as well as digging mud pits and providing drainage to slurry pits.
- d) Assist in making minor adjustments and repairs and work with the mechanic on major repairs.

Bulldozer: 150-200

- a) Perform preventive maintenance, proper oils and greases, and minor adjustments.
- b) Operate on the different types of work assigned the dozer from pioneer and rough excavation to finish work.

Drill Rig Driver: 230-350 Drive a truck mounted drill. Study the Federal Commercial Driver's License (CDL) laws and obtains a CDL license. Use of Grade Instruments and Plans: 296-450 a) Use instruments and read plans for making grades. b) Read and set grade stakes as well as read plans and instructions. c) Read boring plans for layout. Material Sampling: 152-200 a) Perform proper description of soils and logging. b) Principles and methods of soil collection. c) Record geological Miscellaneous Equipment: 200-300 a) Operate, service, and adjust all types of pumps. b) Assist in installing, operating, and maintaining well-point c) Operate, service, and adjust all types of electric generating d) Operate, service, and adjust all other types of equipment. Maintenance - Cutting and Burning - Greases and Oils: 152-200 a) Use various welders and welding equipment. b) Assist in making minor repairs and adjustments. c) Assist in welding and cutting. d) Gain knowledge and use appropriate greases and oils.

4000-6000

c) Assist in making minor adjustments and repairs and work

with the mechanic on major repairs.

Total Hours

RELATED INSTRUCTION OUTLINE Geothermal and Well Drilling Operator O*NET-SOC CODE: 47-5021.00 RAPIDS CODE 2006HY

First-Year	Total Hours: 184	
Introduction a) Apprenticeship b) Issue Books ar c) Drug & Alcohol d) Diversity		20
Safety		10
Occupational Safet Rules and Regulat	ty and Health Administration (O.S.H.A ions)
Commercial Drivers Li	cense Preparation	8
a) Testing Requireb) Inspection Stipec) Driving Course	ulations	
Hazmat		40
40 Hour Hazwoper	Certification Course	
Drilling Fundamentals		18
a) Describe soilsb) Log proceduresc) Principles and		
Health		8
Standard First Aid,	CPR and AED	
Basic Equipment Skills	s (technical training and seat time)	80
a) Drill Rigb) Skid steer loadc) Forklift and Povd) Support Equipr	wered Industrial Truck Training	

Second	d-Year	Total Hours:	144
Soil/Exp	oloratio	n	60
b) c) d)	Logs a	Syllabi will include American Society for Testing and Materials and American Society of Civil Engineers guidelines where they pertain to geotechnical classes Concentration on the protection of aquifers that provide our civilization its potable water supply and data collection ations and layout	
Rigging			12
b) l	Drill Se	Reading et-Up Specification	
Hazwop	er Re-	Certification	8
,		Refresher Review Industry specific safety training and best practices including excavation and safe lifting practices	
Health			8
Stan	dard F	irst Aid, CPR and AED	
Basic E	quipme	ent Skills (technical training and seat time)	56
b) { c) { d) (e) {	Dozer Combir Forklift	g eer loader nation Backhoe Loader and Powered Industrial Truck rt Equipment	

Third-Year Total Hours: 144

Geothermal and other well types

60

- a) Theory and components
- b) Well construction
 - a. The apprenticeship will make use of the curriculum associated with the International Ground Source Heat Pump Association (IGSHPA) accredited driller classes and will institute the IGSHPA and National Ground Water Association (NGWA) standards and best suggested practices
 - b. All well head protection standards for the jurisdiction cover through the apprenticeship will be taught and enforced. These may include but are not limited to:
 - i. Bore hole sealing and grouting
 - ii. The use of pit less adapters
 - iii. Grading of the surface around the well head
 - iv. Offset distances for sitting a well from different environmental hazards
 - v. Well chlorination
 - vi. Residential standards
 - vii. Commercial standards
- c) Grouting Mud and Grout Awareness
- d) Pump selection and installation
- e) Practical application
 - a. Set and seal surface casing
 - b. Before mixing mud adjust makeup water to the correct ph and calcium content
 - c. Mix mud to the proper marsh funnel viscosity for the formation being drilled
 - d. Keep the formation open and/or adjust for down hole problems, clay swelling sand caving etc
 - e. Take mud weight readings before and during drilling to check solids control of mud tank
 - f. Drill, log, and sample the hole to a given depth in a given time using safe industry recognized procedures and techniques
 - g. Retrieve samples both disturbed "Shelby Tube" and undisturbed "Shelby Tube" at given intervals with good recovery

Hazwoper Re-Certification

8

- a) 8 Hour Refresher
- b) Safety Review

Industry specific safety training and best practices including excavation and safe lifting practices

Health 8

Standard First Aid, CPR and AED

Use of Grade Instruments and Plans

16

	c) d)	Theodolite Leveling Rods Measurement Instruments Stakes Print Reading	
Me	cha	nical System	6
	b)	Basic Hydraulics Basic Electrical Fundamental Power Trains	
Eq	uipr	nent Skills (technical training and seat time)	46
	b) c) d)	Drill Rig – Mud Rotary Proficiency Skid steer loader Dozer Combination Backhoe Loader/Excavator Forklift and Powered Industrial Truck Support Equipment	

a) Transit and Hand Level

APPENDIX B AER Sponsor Manual ETA – 671 APPRENTICESHIP AGREEMENT

Appendix C

(SAMPLE) AFFIRMATIVE ACTION PLAN

ADOPTED BY

(INSERT NAME OF LOCAL JAC)

AS REQUIRED UNDER TITLE 29, CODE OF FEDERAL REGULATIONS, PART 30
AMENDED MAY 12, 1978

DEVELOPED IN COOPERATION WITH THE U.S. DEPARTMENT OF LABOR OFFICE OF APPRENTICESHIP

APPROVED BY				
	REGISTI	RATION AGENCY	•	
DA	TE APPROVED:			=

SECTION I - INTRODUCTION

The local JAC enters this Affirmative Action Plan (AAP) with good faith for the purpose of promoting equality of opportunity into its registered apprenticeship program. The local JAC seeks to increase the recruitment of qualified women and/or minorities for possible selection into the apprenticeship program in the event women and/or minorities are underutilized in the apprenticeship program. The JAC hereby adopts the following nondiscriminatory pledge and the AAP.

This AAP is a supplement to the Apprenticeship Standards. Any changes made by the local JAC will become part of this written AAP, once approved by the Registration Agency.

SECTION II - EQUAL OPPORTUNITY PLEDGE

The local JAC commits to the following Equal Opportunity Pledge:

"The recruitment, selection, employment, and training of apprentices during their apprenticeship, shall be without discrimination because of race, color, religion, national origin, or sex. The JAC will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required under Title 29 of the Code of Federal Regulations, part 30."

SECTION III - UTILIZATION AND ANALYSIS, GOALS AND TIMETABLES

In order to allow positive recruitment and full utilization of minorities and women in the apprenticeship program, the local JAC pledges to identify outreach efforts under Section IV which will be undertaken. The purpose of the analysis is to determine the minority and women's labor force in the local JAC's labor market area. Once the labor force is determined, the local JAC can determine if deficiencies exist in terms of underutilization of minorities and/or women in the occupations registered with the Registration Agency. (See attached Affirmative Action Plan Workforce Analysis Worksheet)

<u>SECTION IV - OUTREACH AND POSITIVE RECRUITMENT</u>

The local JAC's AAP includes the following "checked" outreach and positive recruitment efforts that would reasonably be expected to increase minority and women's participation in apprenticeship by expanding the opportunity of minorities and women to become eligible for apprenticeship selection. **Once those efforts have been checked, the local JAC will set forth the specific steps they intend to take under each identified effort.** The local JAC will identify a significant number of activities in order to enable it to meet its obligation under Title 29, CFR, part 30.4(c).

- A. An announcement of specific apprenticeship openings must be disseminated thirty (30) days in advance of the earliest date for application at each interval to the following agencies/organizations:
 - Registration Agency
 - Women's Organizations/Centers
 - Local Schools
 - Employment Service Centers
 - One Stop Centers
 - Vocational Education Schools
 - Other Organizations/Centers (which can effectively reach minorities and women)
 - Newspapers (which are circulated in the minority community and among women)

The announcement will include the nature of the apprenticeship, requirements for admission to apprenticeship, availability of apprenticeship opportunities, sources of apprenticeship applications, and the local JAC's equal opportunity policy. The period for accepting applications as established by the local JAC is: ______

- B. Participation in annual workshops conducted by employment service agencies for the purpose of familiarizing school, employment service and other appropriate personnel with the apprenticeship program and current opportunities.
- C. Cooperation with school boards and vocational educational systems to develop programs for preparing students to meet the standards and criteria required to qualify for entry into the apprenticeship program.
- D. Internal communication of the local JAC's equal opportunity policy should be conducted in such a manner to foster understanding, acceptance, and support among the local JAC's various officers, supervisors, employees, and members, and to encourage such persons to take the necessary action to aid in meeting its obligation under Title 29, CFR, part 30.
- E. Engaging in programs such as outreach for the positive recruitment and preparation of potential applicants for apprenticeships; where appropriate and feasible, such programs will provide for pre-testing experience and training. In initiating and conducting these programs, the local JAC may be required to work with other sponsors and appropriate community organizations. The local JAC will also initiate programs to prepare women and encourage women to enter traditionally male programs.

- F. Encouraging the establishment and utilization of programs of preapprenticeship, preparatory trade training, or others designed to afford related work experience or prepare candidates for apprenticeship. The JAC will make appropriate provisions in its affirmative action plan to assure that those who complete such programs are afforded full and equal opportunity for admission into the apprenticeship program.
- G. Utilizing journeyworkers to assist in the implementation of affirmative action in the apprenticeship program.
- H. Granting advance standing or credit on the basis of previously acquired experience, training, skills, or aptitude for all applicants equally.
- I. Other appropriate action to ensure that the recruitment, selection, employment, and training of apprentices during their apprenticeship will be without discrimination because of race, color, religion, national origin, or sex (e.g., general publication of apprenticeship opportunities and advantages in advertisements, industry reports, articles, etc., use of present minority and female apprentices and journeyworkers as recruiters; career counseling; development of reasonable procedures to ensure employment opportunity, including reporting systems, on-site reviews, briefing sessions).

(Identify Action:)					

SECTION V - ANNUAL REVIEW OF AFFIRMATIVE ACTION PLAN

The local JAC will make an annual review of its current AAP and its overall effectiveness and institute any revisions or modifications warranted. The review will analyze (independently and collectively) the affirmative action steps taken by the local JAC for evaluating the positive impact, as well as the adverse impact in the areas of outreach and recruitment, selection, employment, and training. They will work diligently to identify the cause and effects that result from their affirmative action measures. The local JAC will continually monitor these processes in order to identify the need for a new affirmative action effort and/or deletion of ineffective existing activity(ies). All changes to the AAP must be

submitted to the Registration Agency for approval. The local JAC will continually monitor the participation rates of minorities and women in the apprenticeship program in an effort to identify any type of underutilization. If underutilization exists, corrective action will be immediately implemented. The goals and timetables also will be reviewed periodically as determined by the Registration Agency and updated where necessary.

SECTION VI - OFFICIAL ADOPTION

The (Insert Name of JAC) hereby official Plan on thisday of	•
SIGNATURE OF (MANAGEMENT PROVIDE	E TITLE)
PRINTED NAME	
SIGNATURE OF (LABOR TO PROVIDE TIT	LE)
PRINTED NAME	

AFFIRMATIVE ACTION PLAN WORKFORCE ANALYSIS WORKSHEET

A. SPONSOR INFORMATION

Program Number:				
Name of Sponsor:				
Address:				
City/State/Zip Code:				
Contact Person:				
Phone Number:			FAX Numb	er:
E-Mail Address:				
	NAL INFORMATION			
Occupational Title: *				
RAPIDS Code:		O*NE	T/SOC Code	e:
Type of selection me	thod used:			
Labor Market Area de	escription:			
C. LABOR MAR	KET AREA & OCCUPA	TION	AL PARTICI	PATION DATA
C.1 Total Labor For	ce in Labor Market Are	ea *		
Number of Women: % of labor force				
	Number of Minoritie	s:		% of labor force
C.2 Working Age Po	opulation in Labor Mar	ket Ar	ea *	
	Number of Women: % of labor force			
	Number of Minorities: % of labor force			
C.3 Apprentice Participation in Craft/Occupation in National Apprenticeship System **				
	Number of Wome	n:		% of apprentices
Number of Minorities: % of apprentices				
C.4 The General Availability of Minorities and Women with the Present or Potential				
Capacity for Apprer	nticeship in Program S	ponso	r's Labor M	larket Area. ***
	Number of Wome	n:		
	Number of Minoritie	s:		

Resources for obtaining labor market information.

*** Program Sponsors may use any reasonable method for determining the general availability of minorities and women with the present or potential capacity for apprenticeship, including relying on the data recorded in Section C.1 for "Total Labor Force", C.2 for "Working Age Population", and C.3 "Apprentice Participation in Particular Craft/Occupation" to propose the entries for "The General Availability of Minorities and Women."

^{* &}lt;a href="http://www.census.gov/hhes/www/eeoindex/page_c.html">http://www.census.gov/hhes/www/eeoindex/page_c.html

^{**} RAPIDS Data available from Registration Agency.

D. SPONSOR'S WORKFORCE DATA				
D.1 Total Number of Journey/Craft Workers				
Employed:				
Number of Wome	n:			% of work force
Number of Minorities:				% of work force
D.2 Total Percentage of Apprentices or of Applica used)	nt P	ool (dependir	ng or	n selection method
Numerical percentage of Women apprentices	:			
or women in applicant pool:		%		
Numerical percentage of Minority apprentices	;			
or minorities in applicant pool:			%	
E. ADDITIONAL RESOURCE DATA FOR CO	NSI	DERATION I	ΝE	STABLISHING
GOALS	Mi	nority rate (of.	Female rate of
Industry Source Data				participation
E.1 Registered Apprenticeship Partners		<u> </u>		<u> </u>
Information Data System (RAPIDS): *				
E.2 EEOC Occupational Employment Data: **				
* Data available from Registration Agency				
** http://www.eeoc.gov/stats/jobpat/jobpat.htm	<u> </u>			
F. DETERMINATION OF UTILIZATION				
Analysis		Yes		No
Minority Underutilization:				
Female Underutilization:				
G. SPONSOR'S GOALS:	ĮI.			
The program sponsor proposes and agrees to make of selecting % minorities and ? Review cycle. These goals will not be used to discrapplicant on the basis or race, color, religion, nation	% wo	omen during ate against a	the	next EEO
applicant on the basis of face, color, religion, nation	iai oi	rigin or sex.		
The number of new apprentices to be hired during t estimated to be:			sele	ection period) is
The number of new apprentices to be hired during t	he n		sele	ection period) is
The number of new apprentices to be hired during t estimated to be:	he n	ext year (or		ection period) is
The number of new apprentices to be hired during t estimated to be: H. REGISTRATION AGENCY APPROVAL	he n	ext year (or	ntion	n Agency
The number of new apprentices to be hired during to estimated to be: H. REGISTRATION AGENCY APPROVAL Sponsor	he n	ext year (or s	ntion	n Agency

Date Signed

Date Signed

Instructions for preparing and completing this worksheet

The purpose of this workforce analysis worksheet is to establish a benchmark against which the demographic composition of the sponsor's apprenticeship program can be compared. The sponsor must separately determine the availability of minorities and women for each occupational title represented by the program. In determining availability, the sponsor must consider, at the very least, the factors identified at 29 CFR 30.4(e) in order to determine whether barriers to equal employment opportunity may exist with a particular occupational title.

<u>Part A</u> The Program Sponsor information section may be prepared by the sponsor representative or servicing Registration Agency Representative.

<u>Part B</u> Occupational information will be taken from the registered program standards, and may be prepared by the sponsor representative or servicing Registration Agency Representative. A Workforce Analysis Worksheet must be completed for each occupational title identified.

<u>Part C</u> Sponsors must use the most current and discrete statistical data available in determining availability estimates for the labor market area specified by the sponsor in Part B. Census data is one example of an appropriate source of statistical information. Other sources include data from local job service offices and data from colleges or other training institutions. Where possible, the Registration Agency has provided examples of appropriate sources of data.

For purposes of this section, the term "labor force" is defined to include both those individuals who are employed and those who are unemployed but looking for employment. The term "working age population" means persons ages 15 years and over whether or not they are currently in the labor force or looking for employment.

Part D The Program Sponsor must provide current workforce data as described in Part D. If the sponsor utilizes either Selection Method §30.5(b) (1) or (2), the data in D-2 will be reflective of the "pool" from which selections will be made. If the sponsor utilizes the Selection Method under §30.5(b) (3) or (4), the data in D-2 will be reflective of the current apprentices registered in the program.

<u>Part E</u> Additional Resource Data for consideration in establishing reasonable goals will be provided by the Registration Agency. This data will provide a snapshot of the national labor force for the given occupation title.

<u>Part F</u> Utilizing the data found in Parts C, D and E, the Program Sponsor is to determine if minorities and/or women are underutilized and must check the appropriate response.

<u>Part G</u> If the Program Sponsor's analysis determines that minorities and/or women are underutilized, the Sponsor, utilizing the resource data found in Parts C, D and E, will establish goals which are reasonable in consideration of the results which could be expected from its good faith efforts to make its overall affirmative action program successful. The Registration Agency will review and access the proposed goals and if found to be reasonable and attainable, will acknowledge receipt of the Sponsors goals for minorities and/or women.

Proposed goals for minorities and/or women that are lower than the current participation rate under the Program Sponsor will not be approved.

Appendix D

(SAMPLE) QUALIFICATIONS AND SELECTION PROCEDURES

ADOPTED BY

(INSERT NAME OF LOCAL JAC)

DEVELOPED IN COOPERATION WITH THE U.S. DEPARTMENT OF LABOR OFFICE OF APPRENTICESHIP

APPROVED BY	
	REGISTRATION AGENCY
DATE APPROVED	·

The certification of this selection procedure is not a determination that, when implemented, it meets the requirements of the Uniform Guidelines on Employee Selection Procedures (41 CFR, part 60-3) or Title 29, CFR part 30. Note that selection procedures may need to be modified to provide reasonable accommodations to qualified individuals with disabilities

SECTION I. - MINIMUM QUALIFICATIONS (EXAMPLES)

Applicants will meet the following minimum qualifications:

A. Age

Apprentices must not be less than 18 years of age.

B. <u>Education</u>

Although a high school degree or GED equivalency is not required to apply to the apprenticeship program, either one or the other is preferred. Regardless, an applicant accepted into the apprenticeship program who lacks either must obtain a GED or high school diploma within the 1000 hour probationary period. Failure to obtain a GED or high school diploma within this time frame will terminate the apprenticeship agreement.

An applicant who is seventeen (17) years of age and is participating in a school-to-work program or equivalent and who otherwise meets all qualifications may be rated and ranked and placed on the list of eligible applicants. Such an applicant must be eighteen (18) years of age prior to being accepted into the apprenticeship program.

Applicants must submit a DD-214 to verify military training and/or experience if they are a veteran and wish to receive consideration for such training/experience.

C. Physical

Applicants will be physically capable of performing the essential functions of the apprenticeship program, with or without a reasonable accommodation, and without posing a direct threat to the health and safety of the individual or others.

Applicants will pass a physical agility test, fitness test, or screen for the current illegal use of drugs (select all, some, or none if applicable) on acceptance into the program and prior to being employed.

E. Aptitude Test

Individual JACs may elect to have an aptitude test as part of the selection procedure.

<u>SECTION II. - APPLICATION PROCEDURES (SAMPLE LANGUAGE)</u>

- A. Applicants will be accepted (throughout the year or as specified). All persons requesting an application will have one made available upon signing the applicant log.
- B. All applications will be identical in form and requirements. The application form will be numbered in sequence corresponding with the number appearing on the applicant log so that all applications can be accounted for. Columns will be provided on the applicant log to show race/ethnic and sex identification and the progress by dates and final disposition of each application.
- C. Before completing the application, each applicant will be required to review the Apprenticeship Standards and will be provided information about the program. If the applicant has any additional questions on the qualifications or needs additional information to complete the application, it will be provided by the local JAC.
- D. Receipt of the properly completed application form, along with required supporting documents (proof of age, driver's license, birth certificate or other acceptable documentation; copy of high school diploma, GED Certificate or other acceptable documentation) will constitute the completed application.
- E. Completed applications will be checked for minimum qualifications. Applicants deficient in one or more qualifications or requirements or making false statements on their application will be notified in writing of their disqualification. The applicant will also be notified of the appeal rights available to them. No further processing of the application will be taken.
- F. Applicants meeting the minimum qualifications and submitting the required documents will be notified where and when to appear for an interview (if applicable).

SECTION III. - SELECTION PROCEDURES (EXAMPLE)

- A. The local JAC will schedule the interview and evaluation session. All applicants who have met the minimum qualifications and have submitted the required documents must be notified of the date, time, and place to appear.
- B. The interviewer(s) will rate each applicant during the interview on each of the factors on the applicant rating form taking into account the information on the application and required documents, if applicable. The interviewer will record the questions asked and the general nature of the applicant's answers. The interviewer will then prepare a written summary of his or her judgment of the applicant derived from the interview.

- C. After completing the interview and evaluation of the applicants, the individual rating scores of the interviewer(s) will be added together and averaged to determine the applicant's final rating.
- D. Applicants will be placed on a Ranking List according to their scores at the evaluation session, with the applicant having the highest score being at the top of the list, and all applicants then listed in descending order based on score.
- As openings for the registration of new apprentices occur, the highest ranked applicant will be notified of selection by telephone. It will be the responsibility of the applicant to keep the JAC informed of their current mailing address and telephone number.
- F. Selected applicants must respond to the notice of selection within 48 hours of notice. If applicants cannot be reached by telephone, their names will be passed and notice sent to their address by Certified Mail-Return Receipt Requested to determine if the applicants are still interested. If no response is received in fifteen (15) working days from the written notice, the applicant's name will be removed from the list. Only one certified notice will be mailed.
- G. Qualified applicants remaining on a preceding ranking list will automatically be carried forward on the new ranking list and slotted in wherever their rating score placed them for a period of two (2) years, unless the applicant has been removed from the list by their own written request or following failure to respond to an apprentice opening. Applicants who were not placed during the two (2)-year period that were on the ranking list, will be required to reapply.
- H. During the two (2)-year period, applicants who feel that their qualifications have improved since their original rating may submit documented evidence of such additional experience or training and request reevaluation and rating at the next regular processing cycle.

SECTION IV. - DIRECT ENTRY

JACs who wish to invoke the direct entry provision may do so without regard to the existing selection procedure or minimum qualifications used for entry into the apprenticeship program. Individuals selected into the apprenticeship program via direct entry shall only include those individuals described below who have received training or employment in an occupation directly or indirectly related to the occupation(s) registered in these Standards. The JAC will award Credit for Previous Experience in accordance with Section XII of these Standards, and will pay the apprentice(s) at the wage rate commensurate with their skill attainment. The Credit for Previous Experience shall be awarded without regard to race, color, religion, national origin or sex. The methods for direct entry shall include the following:

- A. Youth who complete a Job Corps training program in any occupation covered in these Standards, who meet the minimum qualifications of the apprenticeship program, may be admitted directly into the program, or if no apprentice opening is available, the Job Corps graduate may be placed at the top of the current applicant ranking list and given first opportunity for placement. The JAC will evaluate the Job Corps training received for granting appropriate credit on the term of apprenticeship. Entry of Job Corps graduates will be done without regard to race, color, religion, national origin, or sex. (Note: This is a method of direct entry into the apprenticeship program.)
- B. Military Veterans who completed military technical training school and/or participated in a registered apprenticeship program or related craft while in the military in the occupations registered in the (INSERT INDUSTRY), may be given direct entry into the apprenticeship program. The JAC shall evaluate the military training received for granting appropriate credit on the term of apprenticeship and the appropriate wage rate. The JAC will determine what training requirements they need to meet to ensure they receive all necessary training for completion of the apprenticeship program. Entry of Military Veterans shall be done without regard to race, color, religion, national origin, or sex. Military veterans who are registered with the Helmets to Hardhat program will be given the utmost consideration with regards to direct entry into the apprenticeship programs. (Note: This is a method of direct entry into the apprenticeship program.)
- C. An employee of a non-signatory employer not qualifying as a journeyworker when the employer becomes signatory, will be evaluated by the JAC in accordance with the procedures for the granting of credit for previous experience, and registered at the appropriate period of apprenticeship based on previous work experience and related training. Any employee not eligible for receipt of credit must make application in accordance with the normal application procedures. Entry into the program through this method shall be done without regard to race, color, religion, national origin, or sex. (Note: This is a method of direct entry into the apprenticeship program.)
- D. An individual who signs an authorization card during an organizing effort, wherein fifty-one percent (51%) or more of the employees have signed authorization cards, whether or not the employer becomes signatory, and is an employee of the non-signatory employer and does not qualify as a journeyworker, will be evaluated in accordance with the procedures for the granting of credit for previous experience and registered by the JAC at the appropriate period of apprenticeship based on previous work experience and related training. Any employee not eligible for receipt of credit must make application in accordance with the normal application procedures. Entry into the program through this method shall be done without regard to race, color, religion, national origin, or sex. (Note: This is a method of direct entry into the apprenticeship program). For such applicants to be considered they must:

- 1. be employed in the JAC's jurisdiction when the authorization card was signed;
- 2. have been employed by the employer before the organizational effort commenced;
- 3. have been offered the opportunity to sign authorization cards and be evaluated along with all other employees of the employer; and provide reliable documentation to the JAC to show they were an employee performing (INSERT INDUSTRY) work prior to signing the authorization card.
- E. An employee of a non-participating employer who becomes a new member employer of the sponsoring organization who does not qualify as a journeyworker when the employer becomes a member, will be evaluated by the Sponsor in accordance with the procedures for the granting of credit for previous experience, and registered at the appropriate period of apprenticeship based on previous work experience and related training. Any employee not eligible for receipt of credit must make application in accordance with the normal application procedures. (Note: This is a method of direct entry into the apprenticeship program, whereby all minimum qualifications are waived.)
- F. An individual who is or who has worked for a signatory or non-signatory employer and who, of his/her own choosing, solicits membership as a journeyworker and does not qualify as a journeyworker, will be evaluated in accordance with the procedures for the granting of credit for previous experience and registered by the JAC at the appropriate period of apprenticeship based on previous work experience and related training. Any employee not eligible for receipt of credit must make application in accordance with the normal application procedures. Entry into the program through this method shall be done without regard to race, color, religion, national origin, or sex. (Note: This is a method of direct entry into the apprenticeship program).

SECTION V. - COMPLAINT PROCEDURE

A. Any apprentice or applicant for apprenticeship who believes that he /she has been discriminated against on the basis of race, color, religion, national origin, or sex, with regard to apprenticeship or that the equal opportunity standards with respect to his/her selection have not been followed in the operation of an apprenticeship program, may personally or through an authorized representative, file a complaint with the Registration Agency or, at the apprentice or applicant's election, with the private review body established by the local JAC (if applicable).

- B. The complaint will be in writing and will be signed by the complainant. It must include the name, address, and telephone number of the person allegedly discriminated against, the JAC involved, and a brief description of the circumstances of the failure to apply equal opportunity standards.
- C. The complaint must be filed not later than 180 days from the date of the alleged discrimination or specified failure to follow the equal opportunity standards, and, in the case of complaints filed directly with the review bodies designated by the JAC to review such complaints, any referral of such complaint by the complainant to the Registration Agency must occur within the time limitation stated above or 30 days from the final decision of such review body, whichever is later. The time may be extended by the Registration Agency for good cause shown.
- D. Complaints of harassment in the apprenticeship program may be filed and processed under Title 29, CFR part 30, and the procedures as set forth above.
- E. The local JAC will provide written notice of their complaint procedure to all applicants for apprenticeship and all apprentices.

SECTION VI. - MAINTENANCE OF RECORDS

The local JAC will keep adequate records including a summary of the qualifications of each applicant, the basis for evaluation and for selection or rejection of each applicant, the records pertaining to interviews of applicants, the original application for each applicant, information relative to the operation of the apprenticeship program, including, but not limited to, job assignment, promotion, demotion, layoff, or termination, rates of pay or other forms of compensation or conditions of work, hours including hours of work and, separately, hours of training provided, and any other records pertinent to a determination of compliance with the regulations at Title 29, CFR part 30, as may be required by the U.S. Department of Labor. The records pertaining to individual applicants, selected or rejected, will be maintained in such manner as to permit the identification of minority and female (minority and non-minority) participants.

Each sponsor must retain a statement of its affirmative action plan for the prompt achievement of full and equal opportunity in apprenticeship, including all data and analysis made pursuant to the requirements of Title 29, CFR 30.4. Each sponsor also must maintain evidence that its qualification standards have been validated in accordance with the requirements set forth in Title 29, CFR 30.5(b).

In addition to the above requirements, adequate records will include a brief summary of each interview and the conclusions on each of the specific factors, e.g., motivation, ambition, and willingness to accept direction which are part of the total judgment. Records will be maintained for 5 years from the date of last action and made available upon request to the U.S. Department of Labor or other authorized representative.

SECTION VI. - OFFICIAL ADOPTION OF SELECTION PROCEDURES

The (INSERT NAME OF L Procedures on this	,	•	
SIGNATURE OF (MANAGE	MENT TO PROVIDE T	ITLE)	
PRINTED NAME			
SIGNATURE OF (LABOR TO	O PROVIDE TITLE)	_	
PRINTED NAME			

Sponsor(s) may designate the appropriate person(s) to sign the Standards on their behalf.