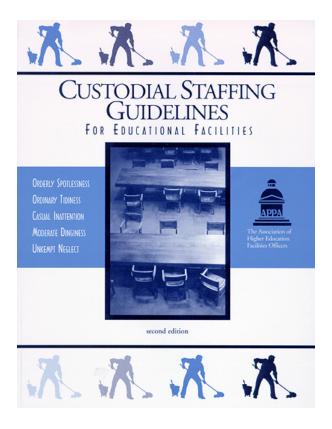
APPA CUSTODIAL OPERATION SELF-ANALYSIS PROGRAM



INTRODUCTION

This survey and self-analysis tool has been designed to identify most of the variables that impact institutional custodial operations, as well as to establish some reliable standardized benchmarks for the industry.

We encourage custodial managers to use this survey to assist them in **organizing** important information about their respective operations. Each manager will then be in a better position to describe the complexities of the custodial operation to the "powers that be." By using the results of the survey, managers will be able to justify current operations, identify needs for additional funding, and/or improve their organizations in general.

This survey also clearly defines several benchmarks that should allow everyone in the industry who uses it to discuss and compare their operations more effectively and accurately.

How to Use

Complete survey questions that are only related to the custodial operations under the custodial manager's direct influence. Do not include information from other campuses or parts of the institution that do not report to you.

If you are interested in comparing your results to other institutions, we recommend that your staff identify institutions that are similar in nature. Contacting counterparts at these institutions by phone, email, or on-site visits will provide a detailed experience exchange that will prove to be beneficial to all parties.

Acknowledgments

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Figure 1 Staffing Service Levels

| APPA Standard Space | Level #1 | Level #2 | Level #3 | Level #4 | Level #5 |
|--|----------|----------|----------|-----------|-----------|
| Classroom with Hard Floor | 8,500 | 16,700 | 26,500 | 39,500 | 45,600 |
| Entranceway | 4,300 | 7,500 | 12,300 | 20,700 | 35,000 |
| Locker/Changing Room - No Shower | 11,800 | 12,100 | XXXX | XXXX | XXXX |
| Office with Carpet Floor | 9,600 | 18,200 | 32,000 | 53,000 | 87,000 |
| Public (Circulation) with Hard Floor | 7,500 | 20,500 | 30,500 | 38,400 | 41,800 |
| Research Lab with Hazardous Waste | 5,200 | 7,000 | 8,200 | 11,400 | 28,200 |
| Research Lab without Hazardous Waste | 6,900 | 10,600 | 13,500 | 25,000 | 87,200 |
| Stairwell | 7,500 | 15,100 | 17,400 | 24,500 | 75,300 |
| Storeroom | 77,000 | 210,000 | 395,300 | 1,832,700 | 3,360,000 |
| Washroom | 2,000 | 2,600 | XXXX | XXXX | XXXX |
| Shower Room | 5,200 | 5,200 | XXXX | XXX | XXXX |
| Public (Circulation) with Carpet Floor | 17,700 | 40,400 | 53,500 | 80,900 | 93,600 |
| Office with Hard Floor | 8,400 | 14,600 | 25,100 | 36,000 | 49,500 |
| Classroom with Carpet Floor | 9,700 | 21,700 | 24,000 | 34,700 | 37,200 |
| Classroom with Carpet Floor-High Use | 5,100 | 12,700 | 13,400 | 17,900 | 18,800 |
| Classroom with Hard Floor-High Use | 4,700 | 9,600 | 10,100 | 21,000 | 22,900 |
| Washroom-High Use | 1,000 | 1,300 | XXXX | 00000 | XXXX |
| Utility | 4,100 | 5,500 | 9,800 | 17,700 | 45,700 |
| Vending | 4,800 | 11,100 | 16,000 | 17,700 | 19,500 |
| Dormitory Lounge | 5,200 | 8,700 | 17,800 | 42,900 | 136,500 |
| Cafeteria with Carpet | 9,900 | 15,400 | XXXX | XXXX | 10000 |
| Cafeteria with Hard Floor | 11,200 | 16,400 | 10000 | XXXX |)0000 |
| Library with Carpet | 17,900 | 36,900 | 72,600 | 106,400 | 126,800 |
| Library with Hard Floor | 10,900 | 20,200 | 23,500 | 47,000 | 57,000 |
| Auditorium Seating & Foyer | 5,700 | 14,000 | 32,600 | 67,200 | 408,000 |
| Auditorium Stage & Wings | 18,600 | 27,500 | 82,800 | 239,500 | XXXX |
| Gymnasium (Wood Floor) | 17,300 | 36,500 | 80,700 | 257,400 | 1,108,200 |
| Dormitory Washroom | 1,500 | 1,800 | XXXX | XXXX | XXXX |
| Dormitory Sleep/Study | 3,900 | 4,100 | 8,000 | 18,700 | 24,700 |
| Patient Conference Room | 8,300 | 8,300 | XXXX | XXXX | X000X |
| Patient Treatment Area — Carpeted | 3,300 | 3,300 | XXXX | XXXX | XXXX |
| Patient Treatment Area — Hard Floor | 2,900 | 2,900 | XXXX | 10000 | XXXX |
| Nursing Station — Hard Floor | 5,700 | 5,700 | XXXX | XXXX | XXXX |

GENERAL CAMPUS INFORMATION

| Purp | To identify the factors internal to your campus that have an impact on custodial services. |
|------|--|
| A1. | What is the total number of full-time students on your campus when in full session? |
| | What is the total number of part-time students on your campus when in full session: A1 Total |
| A2. | What is the total number of faculty and staff on your campus when in full session? A2 Total |
| A3. | Identify the total gross square footage under your responsibility. (This is determined by measuring the sum of the floor area within the outside faces of the exterior walls for all areas.) Total gross sq. ft. |
| Purp | ose: To establish a benchmark that quantifies the amount of use in the buildings. |
| A4. | What is your ratio of customers per $10,000$ gross sq. ft.? Divide the answer of A3 by $10,000 = A3(10K)$. Then divide the A3(10K) figure into the total of the A1 and A2 figures. |
| | $\frac{A1+A2}{A3(10K)} = \# \underline{\qquad} \text{users for every 10,000 gross sq. ft. cleaned.}$ |
| A5. | What percentage of your student population resides in campus housing (residence halls, fraternities, sororities)% |
| A6. | To determine when the custodial work is completed, identify what percentage (%) of your FTE custodial staff works on the following work shifts: |
| | Days:% Evenings:% Late Nights% |
| A7. | Identify the age of your facilities by estimating the following: Amount of gross square ft. completed or renovated to a new condition between: |
| | 1985 - NowGSF |
| A8. | In order for you to get a more complete picture of the type of space your staff maintains, use the following tables to identify the amount of space per classification and who cleans it: |

| | a) | By cleanable square footage (csf) (assignable space that is being clean | - | ge from wall-to-wall within ar |
|------|-------------|---|---------------------------|--------------------------------|
| | | Medical/Health Athletic Academic Residential (dorms) Other | In-House | Contracted |
| | | Total | l Total | <u> </u> |
| | b) | By gross square feet | In-House | Contracted |
| | | Medical/Health | 111 110 430 | Contracted |
| | | Athletic | | |
| | | Academic | | |
| | | Residential (dorms) Other | | |
| | | Other | | |
| | c) | Labor allocation for type of buildin | | |
| | | Medical/Health | In-House | Contracted |
| | | Athletic | | |
| | | Academic | | |
| | | Residential (dorms) | | |
| | | Other | | |
| | A9 . | To give an overview of the cleaning follows, complete the chart called Institution, on page 10. | - | |
| | A10. | To identify and determine costs for related, complete the chart called | , | |
| | | | | |
| PERS | SONNE | L INFORMATION | | |
| B1. | | is the cost of your benefit package by | | · · · <u> </u> |
| B2. | | s section, identify the hourly wage rate on of the wage range. | tes (not including the be | enefit package) for each |

| TITLE | HIRING RATE | MINIMUM REGULAR RATE | MAXIMUM RATE | MOST COMMON OR AVERAGE RATE |
|------------------------------|----------------|----------------------------|-----------------|--------------------------------------|
| Custodial Supt/Manager | | | | |
| Custodial Supervisor/Foreman | | | | |
| Custodial Crew Leaders | | | | |
| Custodian/Housekeeper | | | | |

| B3. | Is the cleaning star | | - | presented by: |
|------------|---|-----------------|------------------|---|
| | Union Civil Service | | | If yes, how many unions? |
| B4. | | | | at provide custodial services free of charge on a er month on an average? average days a month |
| B5. | To identify the ar | nount of non-su | pervisor | y full-time and part-time positions in your operation: |
| | Full Time (40 hou Part Time (20-39 Part Time Studen Temporary Other | hours) | # # # # | |
| TRA | AINING | | | |
| B6. | employees is dire How many work | ctly correlated | to the am | glected and underfunded. The productivity of most nount of quality teaching that occurs for each employee nnual basis per custodian for cleaning-skills training ? |
| B7. | workhours (B5) t | | - | stodian for this cleaning-skills training? (Use the # of rate (B2) to get this annual training cost.) |

ORGANIZATIONAL STRUCTURE

| B8 . | How many professional management people (supervisors) are on your staff? (Do not include "crew" leaders who spend a majority of their time actually performing cleaning duties.) # |
|-------------|---|
| В9. | How many full-time custodial employees are under supervision in your operation? (Include crew leaders) # |
| B10. | How many part-time custodians on an average are under supervision at any one time? # |
| B11. | How many full-time custodians exist, on an average, per front-line (professional) supervisor in your operation? B9 total B8 = custodians per supervisor |
| B12. | How many part-time custodians exist on an average per front-line supervisor in your operation? $ \frac{B10 \text{ total}}{B8} = \frac{p/t \text{ custodians per supervisor}} $ |
| GENI | ERAL INFORMATION - These internal factors can affect the performance of your workforce. |
| B13. | Calculate the total number of weeks per year, if any, that there is a legitimate "break" where your custodial staff can perform projects as opposed to routine cleaning. # weeks |
| B14. | What is your annual employee turnover rate? (Determine by taking the total number of full-time custodial employees who left employment last year and divide by the total number of full-time custodial employees normally in your operation)% |
| B15. | What is the average amount of time it takes for your operation to replace an employee? (Determine from last day of work to the first day of work by the replacement). |
| | Check one: 0-3 weeks Over 4-8 weeks Over 8-12 weeks More than 12 weeks |
| B16. | What percentage of the academic buildings are extensively used for evening or night classes? |
| | 0-33% |
| COM | MUNITY ISSUES |
| C 1. | To determine the strength of the labor market in your region, indicate how many applications you or your Human Resources Department receive for each custodial position that is advertised. # applications per position |

| C2. | What is the present unemployment rate for your city or region?% |
|------|--|
| C3. | What is your city population?# people |
| C4. | What is the advertised average or most common starting wage for entry-level service jobs in your community? \$ |
| C5. | What environmental challenges does your community face on a regular or annual basis? Check all that apply. |
| | Snow Heavy Rain Sand Ice |
| | Wind-Blown Sand Smog Other |
| QUAI | LITY OF SERVICE Is your operation using the APPA Custodial Staffing Guidelines for Educational Facilities (second edition) publication as a reference?yesno |
| D2. | Refer to Figure 1 and the APPA Custodial Service Levels. Then evaluate each type of facility on your campus and determine the average "level of service" that your custodial operation is providing for each building type. (For example, Academic Buildings may be rated at 2.5, Medical/Health Buildings may be at 1.0, Residential at 3.5.) |
| | Medical/Health BuildingsAPPA level of service |

10 DESCRIPTION OF CLEANING SCHEDULES FOR YOUR INSTITUTION ALTERNATE DAYS TWICE A MONTH SEMI-ANNUALLY QUARTERLY NO SERVICE ANNUALLY MONTHLY WEEKLY AREA ROUTINE CLEANING FREQUENCY **RESTROOMS PUBLIC AREAS PRIVATE OFFICES PUBLIC OFFICES CLASSROOMS** RESEARCH LABS **STAIRWELLS** STORE ROOMS **OUTSIDE WINDOWS ENTRANCE WAYS** (OTHER) MAJOR CARPET CARE (EXTRACTION/SHAMPOOING) public areas offices classrooms

MAJOR HARD FLOOR CARE

| stripping and refinishing | | | | | |
|---------------------------|--|--|--|--|--|
| spray buffing | | | | | |
| burnishing | | | | | |

NON-CLEANING RELATED DUTIES

These are duties that are generally absorbed by most custodial operations yet they are not cleaning-related and funded appropriately.

| TASK | ANNUAL COST |
|--|-------------|
| SECURITY (unlocking) | |
| RECYCLING | |
| SNOW REMOVAL | |
| MOVING & SETUPS | |
| RELAMPING | |
| PEST CONTROL | |
| GROUNDSKEEPING | |
| MAIL DELIVERY | |
| DEMOLITION/REMODELING JOBS | |
| LIST OTHERS BELOW: | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| This total dollar figure will be used for question E4. | Total: |

CUSTODIAL COSTS & BENCHMARKS

To determine a valid cost per square foot for cleaning services, follow specifically the guidelines listed below:

| E1. | Direct Cleaning Costs for last year | | |
|-----|---|----------------------|------------|
| | Total Labor Wages (including entire ber | nefit package value) | \$ |
| | Total Management Salaries (including be | nefit package) | \$ |
| | Total Annual Supplies Cost | | \$ |
| | Total Annual Equipment Purchased (do not include depreciation costs) |) | \$ |
| | Total Annual Cost for Contracted Service | S | \$ |
| | Any Other Direct Costs | | \$ |
| | | Subtotal | \$ |
| | Chargeback Labor Revenue generated by while working on regular shifts. | your staff Subtract | \$ |
| | TOTAL DIRECT CLEANING COSTS | E1 Total | \$ |
| E2. | Indirect Costs (clerical support, office su postage, pre-employment physicals, other | 11 / | |
| | Wage & Benefits (total) | | \$ |
| | Miscellaneous Operating Costs (travel, po | estage, etc.) | \$ |
| | | E2 Total | \$ <u></u> |
| E3. | Total of E1+E2 = Total cost of your Building Services operation | E3Total\$ | ** |
| E4. | Cost of Non-Cleaning-Related Duties total from page 6) | E4Total-\$ | * |
| E5. | Total E3 minus E4 = (Actual cost for cle of buildings on an annual basis). | aning | |
| | \$ | ** | |

E6. To establish a cost per square foot benchmark, use the following formula:

E3 Total
A3 (Total GSF)= cost per gross sq. ft. for entire
Building Services operation

*

E5 Total\$
A3 (Total GSF)= cost per gross sq. ft. for actual cleaning of buildings

*

OTHER CUSTODIAL PRODUCTIVITY BENCHMARKS

To determine the average number of gross square feet assigned to each custodian, use the following formula:

- E7. Identify the total number of full-time custodial employees (include crew leaders) = #
- E8. Add total number of hours worked by all other part-time custodial employees together and divide by 2080 hours to establish an FTE equivalent total See section B9

- E9. A3 Total = Average gross sq. ft. assigned
 E7 + E8 per FTE custodian *
- E10. A8 (d) = Average cleaned sq. ft. (csf) E7 + E8 per FTE custodian **

Another method of defining productivity can be found by determining the total work hours per 1000 GSF. To calculate this benchmark, use the following steps:

- **E11**. Multiply (E7+E8) x 2080 hours = TOTAL HOURS WORKED.
- E12. $\frac{\text{A3(GSF)Total}}{1000 \text{ GSF}} = \# \text{ of (1000 GSF) units}$
- E13. E11 Total = # work hours per (1000 GSF) annually E12 Total

You have reached the end of the APPA Custodial Operation Self-Analysis Program. Please refer to the Introduction for suggestions on how to use this information.

APPA CUSTODIAL SERVICE LEVELS

Level 1 - Orderly Spotlessness

Level 1 establishes cleaning at the highest level. It was developed for the corporate suite, the donated building, or the historical focal point. This is show-quality cleaning for that prime facility.

- Floors and base moldings shine and/or are bright and clean; colors are fresh. There is no buildup in corners or along walls.
- All vertical and horizontal surfaces have a freshly cleaned or polished appearance and have no accumulation of dust, dirt, marks, streaks, smudges, or fingerprints.
- Washroom and shower tile and fixtures gleam and are odor-free. Supplies are adequate.
- Trash containers and pencil sharpeners are empty, clean, and odor-free.

Level 2 - Ordinary Tidiness

Level 2 is the base upon which this study is established. This is the level at which cleaning should be maintained. Lower levels for washrooms, changing/locker rooms, and similar type facilities are not acceptable.

- Floors and base moldings shine and/or are bright and clean. There is no buildup in corners or along walls, but there can be up to two days worth of dirt, dust, stains, or streaks.
- All vertical and horizontal surfaces are clean, but marks, dust, smudges, and fingerprints are noticeable with close observation.
- Washroom and shower tile and fixtures gleam and are odor-free. Supplies are adequate.
- Trash containers and pencil sharpeners are empty, clean, and odor-free.

Level 3 - Casual Inattention

This level reflects the first budget cut, or some other staffing-related problem. It is a lowering of normal expectations. While not totally acceptable, it has yet to reach an unacceptable level of cleanliness.

- Floors are swept clean, but upon close observation dust, dirt, and stains, as well as a buildup of dirt, dust, and/or floor finish in corners and along walls, can be seen.
- There are dull spots and/or matted carpet in walking lanes, and streaks and splashes on base molding.
- All vertical and horizontal surfaces have obvious dust, dirt, marks, smudges, and fingerprints.
- Lamps all work and all fixtures are clean.
- Trash containers and pencil sharpeners are empty, clean, and odor-free.

Level 4 - Moderate Dinginess

Level 4 reflects the second budget cut, or some other significant staffing-related problem. Areas are becoming unacceptable. People beginning to accept an environment lacking normal cleanliness. In fact, the facility begins to constantly look like it requires a good "spring cleaning."

- Floors are swept clean, but are dull. Colors are dingy, and there is an obvious buildup of dust, dirt, and/or floor finish in corners and along walls. Molding is dull and contains streaks and splashes.
- All vertical and horizontal surfaces have conspicuous dust, dirt, smudges, fingerprints, and marks that will be difficult to remove.

- Less than 5% of lamps are burned out, and fixtures are dingy.
- Trash containers and pencil sharpeners have old trash and shavings. They are stained and marked. Trash cans smell sour.

Level 5 - Unkempt Neglect

This is the final and lowest level. The trucking industry would call this "just-in-time cleaning." The facility is always dirty, with cleaning accomplished at an unacceptable level.

- Floors and carpets are dirty and have visible wear and/or pitting. Colors are faded and dingy, and there is a conspicuous buildup of dirt, dust, and/or floor finish in corners and along walls. Base molding is dirty, stained, and streaked. Gum, stains, dirt, dust balls, and trash are broadcast.
- All vertical and horizontal surfaces have major accumulations of dust, dirt, smudges, and fingerprints, as well as damage. It is evident that no maintenance or cleaning is done on these surfaces.
- More than 5% of lamps are burned out, and fixtures are dirty with dust balls and flies.
- Trash containers and pencil sharpeners overflow. They are stained and marked. Trash containers smell sour.