



**GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICELIST**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!™, a menu-driven database system. The INTERNET address for GSA Advantage!™ is: www.gsaaadvantage.gov.

Facility Maintenance and Management
Federal Supply Group: H and J
Class: J099 and Z300

Contract Number: **47QSHA19D001K**

For more information on ordering from Federal Supply Schedules, click on the FSS schedules button at www.gsa.gov/schedules-ordering.

Contract Period: **December 21, 2018** through **December 20, 2023**

Pricelist current through Modification # **PO-0002**, effective **October 01, 2019**

Contractor: Four Seasons Environmental, Inc. Business Size: Small Business
43 New Garver Road
Monroe, OH 45050
513-539-2978
513-539-2972
www.fseinc.net Contract Administrator: Reed Tarkington

CUSTOMER INFORMATION:

1a. Awarded Special Item Number(s):

Special Item Number (SIN)	Description	Pricing
561210FAC	Complete Facilities Maintenance and Management	See Page 4
541690E	Energy Services	See Page 7
ANCRA	Ancillary Repair and Alterations	See Page 8
ANCILLARY	Ancillary Supplies and Services	See Page 9
OLM	Order-Level Materials (OLM)	See Page 9

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract: Not Applicable.

1c. Descriptions of all corresponding exempt commercial job titles with experience, functional responsibility and education are provided beginning on page 9.

2. Maximum Order: \$1,000,000

*If the "best value" selection places your order over the Maximum Order, identified in this catalog/price list, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8.404.

3. Minimum Order: \$100

4. Geographic Coverage: 48 contiguous states, Alaska, Hawaii, Puerto Rico and Washington, DC; and to a CONUS port or consolidation point for orders received from overseas activities.

5. Point of Production: Four Seasons Environmental, Inc.
43 New Garver Road
Monroe, OH 45050

6. Prices Shown Herein are Net (discount deducted)

7. Quantity Discount: None

8. Prompt Payment Terms: Net 30 Days (No discount)

9. Government Purchase Cards are accepted below and above the micro-purchase threshold.

10. Foreign Items: None

11a. Time of Delivery: Four Seasons Environmental, Inc. shall deliver or perform services in accordance with the terms negotiated in an agency's order. Four Seasons Environmental, Inc. will not propose in excess of its standard commercial delivery or performance times to agencies without giving notice to the Ordering Officer of its intent to do so.

11b. Expedited Delivery: Not available

11c. Overnight/2-Day Delivery: Not available

11d. Urgent Requirements: Consult with Contractor

12. FOB Point: FOB Destination

13. Ordering Address: Four Seasons Environmental, Inc.
Attention: Reed Tarkington
43 New Garver Road
Monroe, OH 45050

14. Payment Address: Four Seasons Environmental, Inc.
Attention: John Hedrick
43 New Garver Road
Monroe, OH 45050

15. Warranty Provisions: Standard Warranty

16. Export Packing charges: Not applicable
17. Terms and conditions of Government Purchase Card Acceptance: Contact Four Seasons Environmental, Inc. for terms and conditions of Government Purchase Card acceptance.
18. Terms and conditions of rental, maintenance, and repair: Not applicable
19. Terms and conditions of installation: Four Seasons Environmental, Inc. shall deliver or perform services in accordance with the terms negotiated in an agency's order.
20. Terms and conditions of repair parts: Not applicable
- 20a. Terms and conditions for any other services: Not applicable
21. List of service and distribution points: Not applicable
22. List of participating dealers: Not applicable
23. Preventive maintenance: Not applicable
24. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants: Not applicable
- 24a. Section 508 compliance information on EIT supplies and services: Not applicable
25. DUNS Number: 107611246
26. Four Seasons Environmental, Inc. is registered in the System for Award Management (SAM) database.

561210FAC - COMPLETE FACILITIES MAINTENANCE AND MANAGEMENT**Non Exempt Hourly Rates**

Labor Category	12/21/18 - 12/20/19	12/21/19 - 12/20/20	12/21/20 - 12/20/21	12/21/21 - 12/20/22	12/21/22 - 12/20/23
Accounting Clerk III	\$46.15	\$47.99	\$49.91	\$51.91	\$53.99
General Clerk III	\$41.97	\$43.65	\$45.40	\$47.22	\$49.10
Scheduler, Maintenance	\$42.80	\$44.51	\$46.29	\$48.15	\$50.07
Administrative Assistant	\$62.54	\$65.04	\$67.64	\$70.34	\$73.16
Receptionist - Operator	\$35.08	\$36.48	\$37.94	\$39.46	\$41.03
Word Processor III	\$47.10	\$48.98	\$50.94	\$52.98	\$55.10
Computer Operator V	\$61.57	\$64.04	\$66.60	\$69.26	\$72.03
Janitor	\$35.10	\$36.50	\$37.96	\$39.48	\$41.06
Laborer, Grounds Maintenance	\$36.20	\$37.64	\$39.15	\$40.71	\$42.34
Tractor Operator	\$39.46	\$41.03	\$42.68	\$44.38	\$46.16
Forklift Operator	\$38.35	\$39.88	\$41.48	\$43.14	\$44.86
Material Handling Laborer	\$37.27	\$38.76	\$40.31	\$41.92	\$43.60
Shipping/Receiving Clerk	\$35.08	\$36.48	\$37.94	\$39.46	\$41.03
Stock Clerk	\$39.21	\$40.78	\$42.41	\$44.11	\$45.87
Carpenter, Maintenance	\$63.55	\$66.09	\$68.73	\$71.48	\$74.34
Electrician, Maintenance	\$77.77	\$80.88	\$84.11	\$87.48	\$90.98
Lead Electrician, Maintenance*	\$79.72	\$82.90	\$86.22	\$89.67	\$93.26
Electronics Technician III	\$66.00	\$68.64	\$71.39	\$74.24	\$77.21

General Maintenance Worker	\$50.05	\$52.06	\$54.14	\$56.30	\$58.56
HRAC Mechanic	\$51.89	\$53.97	\$56.12	\$58.37	\$60.70
Lead HRAC Mechanic	\$53.85	\$56.00	\$58.24	\$60.57	\$63.00
Instrument Mechanic	\$59.13	\$61.49	\$63.95	\$66.51	\$69.17
Laborer, Maintenance	\$36.37	\$37.82	\$39.33	\$40.91	\$42.54
Maintenance Trades Helper	\$38.22	\$39.74	\$41.33	\$42.99	\$44.71
Painter, Maintenance	\$54.94	\$57.14	\$59.43	\$61.80	\$64.28
Pipefitter, Maintenance	\$69.39	\$72.16	\$75.05	\$78.05	\$81.17
Lead Pipefitter, Maintenance*	\$71.33	\$74.19	\$77.15	\$80.24	\$83.45
Plumber, Maintenance	\$69.48	\$72.26	\$75.15	\$78.16	\$81.29
Sheetmetal Worker - Maint.	\$64.85	\$67.44	\$70.14	\$72.94	\$75.86
Welder, Maintenance	\$46.09	\$47.93	\$49.85	\$51.84	\$53.92
Woodcraft Worker	\$50.86	\$52.89	\$55.01	\$57.21	\$59.49
Stationary Engineer	\$59.99	\$62.39	\$64.89	\$67.48	\$70.18
Lead Stationary Engineer*	\$61.94	\$64.42	\$66.99	\$69.67	\$72.46
Water Treatment Plant Operator	\$57.94	\$60.25	\$62.66	\$65.17	\$67.78
Engineering Tech VI	\$86.93	\$90.41	\$94.02	\$97.78	\$101.70
Environmental Tech	\$49.93	\$51.93	\$54.01	\$56.17	\$58.41
Truck Driver - Heavy Duty	\$50.48	\$52.50	\$54.60	\$56.78	\$59.05

Exempt Hourly Rates

Labor Category	12/21/18 - 12/20/19	12/21/19 - 12/20/20	12/21/20 - 12/20/21	12/21/21 - 12/20/22	12/21/22 - 12/20/23
Project Manager	\$122.18	\$127.06	\$132.15	\$137.43	\$142.93
Mechanical Engineer	\$159.22	\$165.59	\$172.22	\$179.10	\$186.27
Electrical Engineer	\$159.22	\$165.59	\$172.22	\$179.10	\$186.27
Safety Engineer	\$122.18	\$127.06	\$132.15	\$137.43	\$142.93
Quality Assurance Manager	\$122.18	\$127.06	\$132.15	\$137.43	\$142.93

541690E - ENERGY SERVICES

Exempt Hourly Rates

Labor Category	12/21/18 - 12/20/19	12/21/19 - 12/20/20	12/21/20 - 12/20/21	12/21/21 - 12/20/22	12/21/22 - 12/20/23
Administrative Associate	\$51.96	\$54.04	\$56.20	\$58.45	\$60.79
Project Manager	\$84.46	\$87.84	\$91.35	\$95.01	\$98.81
Commissioning Agent	\$77.95	\$81.07	\$84.31	\$87.68	\$91.19

ANCRA - ANCILLARY REPAIR AND ALTERATIONS

Non Exempt Hourly Rates

Labor Category	12/21/18 - 12/20/19	12/21/19 - 12/20/20	12/21/20 - 12/20/21	12/21/21 - 12/20/22	12/21/22 - 12/20/23
Carpenter Regular Time Davis Bacon	\$121.67	\$126.53	\$131.59	\$136.86	\$142.33
Carpenter Overtime Davis Bacon	\$157.52	\$163.82	\$170.37	\$177.19	\$184.28
Electrician Regular Time Davis Bacon	\$117.89	\$122.61	\$127.51	\$132.61	\$137.92
Electrician Overtime Davis Bacon	\$160.40	\$166.82	\$173.49	\$180.43	\$187.65
Laborer Regular Time Davis Bacon	\$101.21	\$105.26	\$109.47	\$113.85	\$118.41
Laborer Overtime Davis Bacon	\$133.70	\$139.05	\$144.61	\$150.39	\$156.41
Painter Regular Time Davis Bacon	\$89.00	\$92.56	\$96.26	\$100.11	\$104.12
Painter Overtime Davis Bacon	\$119.01	\$123.77	\$128.72	\$133.87	\$139.23
Cement Mason Regular Time Davis Bacon	\$128.50	\$133.64	\$138.99	\$144.55	\$150.33
Cement Mason Overtime Davis Bacon	\$165.71	\$172.34	\$179.23	\$186.40	\$193.86
Plumber Regular Time Davis Bacon	\$138.77	\$144.32	\$150.10	\$156.10	\$162.34
Plumber Overtime Davis Bacon	\$182.41	\$189.71	\$197.30	\$205.19	\$213.40
Pipefitter Regular Time Davis Bacon	\$154.25	\$160.42	\$166.83	\$173.51	\$180.45
Pipefitter Overtime Davis Bacon	\$196.98	\$204.86	\$213.05	\$221.57	\$230.43
Sheet Metal Worker Regular Time Davis Bacon	\$131.52	\$136.78	\$142.25	\$147.94	\$153.86
Sheet Metal Worker Overtime Davis Bacon	\$172.28	\$179.17	\$186.34	\$193.79	\$201.54

**ANCRA - ANCILLARY REPAIR AND ALTERATIONS
ANCILLARY - ANCILLARY SUPPLIES AND SERVICES**

Catalog Pricing

Catalog	12/21/18 - 12/20/23
Current WWGrainger.com catalog	catalog + 9.5%
Current McMaster-Carr.com catalog	catalog + 9.5%
Current Lowes.com catalog	catalog + 9.5%
Current HomeDepot.com catalog	catalog + 9.5%
Current JohnstoneSupply.com catalog	catalog + 9.5%
Current Trane.com catalog	catalog + 9.5%
Current York.com catalog	catalog + 9.5%
Current Carrier.com catalog	catalog + 9.5%
Current Rexel.com catalog	catalog + 9.5%
Current SunbeltRental.com catalog	catalog + 9.5%

OLM – ORDER LEVEL MATERIALS

OLMS ARE SUPPLIES AND/OR SERVICES ACQUIRED IN DIRECT SUPPORT OF AN INDIVIDUAL TASK OR DELIVERY ORDER PLACED AGAINST A SCHEDULE CONTRACT OR BPA. OLM PRICING IS NOT ESTABLISHED AT THE SCHEDULE CONTRACT OR BPA LEVEL, BUT AT THE ORDER LEVEL. SINCE OLMs ARE IDENTIFIED AND ACQUIRED AT THE ORDER LEVEL, THE ORDERING CONTRACTING OFFICER (OCO) IS RESPONSIBLE FOR MAKING A FAIR AND REASONABLE PRICE DETERMINATION FOR ALL OLMs.

OLMs ARE PROCURED UNDER A SPECIAL ORDERING PROCEDURE THAT SIMPLIFIES THE PROCESS FOR ACQUIRING SUPPLIES AND SERVICES NECESSARY TO SUPPORT INDIVIDUAL TASK OR DELIVERY ORDERS PLACED AGAINST A SCHEDULE CONTRACT OR BPA. USING THIS NEW PROCEDURE, ANCILLARY SUPPLIES AND SERVICES NOT KNOWN AT THE TIME OF THE SCHEDULE AWARD MAY BE INCLUDED AND PRICED AT THE ORDER LEVEL.

HOW DO I INCLUDE OLMs UNDER A SCHEDULE ORDER?

UNDER DESIGNATED OLM SCHEDULES, A CONTRACTOR IS AUTHORIZED TO QUOTE OLMs ONLY IF THE ORDER-LEVEL MATERIALS SIN IS AWARDED UNDER ITS CONTRACT. ORDERS THAT INCLUDE OLMs MUST BE PLACED IN ACCORDANCE WITH THE SPECIAL ORDERING PROCEDURES FOR THE ACQUISITION OF ORDER-LEVEL MATERIALS DETAILED IN GSAR CLAUSE 552.238-82. IT IS IMPORTANT TO REMEMBER:

PRICES FOR OLMs ARE NOT ESTABLISHED IN THE SCHEDULE CONTRACT OR BPA.

OLMs ARE ESTABLISHED AND ACQUIRED AT THE ORDER LEVEL, AND THE ORDERING ACTIVITY CONTRACTING OFFICER IS RESPONSIBLE FOR MAKING THE DETERMINATION THAT PRICES FOR ALL OLMs ARE FAIR AND REASONABLE.

ORDER TYPES

OLM PROCEDURES MAY BE USED TO PURCHASE OLM PRODUCTS OR SERVICES TO SUPPORT DELIVERY ORDERS (PRODUCTS) OR TASK ORDERS (SERVICES) UNDER AUTHORIZED GSA SCHEDULES.

OLMs MAY BE ADDED TO ANY ORDER-TYPE, I.E. FIRM FIXED-PRICE, TIME & MATERIALS (T&M), OR LABOR HOUR. THE OLM CLIN MUST BE T&M, BUT IT CAN BE THE ONLY T&M CLIN ON THE ORDER. I.E. OLMs MAY BE ADDED TO A FIRM FIXED-PRICE ORDER, BUT THE OLM CLIN ITSELF MUST BE T&M.

561210FAC - COMPLETE FACILITIES MAINTENANCE AND MANAGEMENT
541690E - ENERGY SERVICES
ANCRA - ANCILLARY REPAIR AND OPERATIONS
ANCILLARY - ANCILLARY SUPPLIES AND SERVICES

Labor Category Descriptions

Accounting Clerk III

The Accounting Clerk III maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: 1.) reviewing invoices and statements verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit determining accounts involved. The review will include coding transactions, and processing material through data processing for application in the accounting system; 2.) analysis and reconciliation of computer printouts with operating unit reports (contacting units, researching causes of discrepancies, and taking action to ensure that accounts balance). Supervisor provides suggestions for handling unusual or non-recurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor, or are controlled by mechanisms built into the accounting processes.

General Clerk III

This position uses some subject-matter knowledge and judgment to complete assignments consisting of numerous steps varying in nature and sequence. The General Clerk III selects from alternative methods and refers problems not solvable by adapting or interpreting substantive guides, manuals, or procedures. Typical duties include: assisting in a variety of administrative matters; maintaining a wide variety of financial or other records (stored both manually and electronically); verifying statistical reports for accuracy and completeness; compiling information; and handling and adjusting complaints.

The General Clerk III may also direct lower level clerks. Positions above level IV are excluded. Such positions (which may include supervisory responsibility over lower level clerks) require workers to use a thorough knowledge of an office's work and routine to: 1) choose among widely varying methods and procedures to process complex transactions; and 2) select or devise steps necessary to complete assignments. Typical jobs covered by this exclusion include administrative assistants, clerical supervisors, and office managers.

Scheduler, Maintenance

This position schedules vehicle repairs and lubrication for vehicle-maintenance, schedules vehicles for lubrication or repairs based on date of last lubrication and mileage traveled or urgency of repairs. The Maintenance Scheduler contacts garage to verify availability of facilities, notifies parking garage workers to deliver specified vehicles, and maintains a file of requests for services.

Administrative Assistant

In addition to secretarial duties (filing, taking phone calls, scheduling appointments, making travel arrangements), this position will provide administrative support to executive staff with office management responsibilities to include budgeting, personnel records and payroll. The Administrative Assistant may be required to work independently on projects requiring research and preparation of briefing charts and other presentation materials.

Receptionist – Operator

This position greets visitors, determining nature of visits and directing visitors to appropriate persons. Duties may include, but are not limited to, relaying incoming, outgoing, and intra-system calls through a private branch exchange (PBX) system; recording and transmitting messages; keeping records of calls placed; providing information to callers and visitors; hearing and resolving complaints; making appointments; handling incoming and outgoing mail; controlling access to the facility; keeping a log of visitors; and issuing visitor passes. In this position, one may also type and perform other routine clerical work, such as entering data and processing documents, which may occupy the major portion of the worker's time."

Word Processor III

Requires both a comprehensive knowledge of word processing software applications and office practices and a high degree of skill in applying software functions to prepare complex and detailed documents. For example, processes complex and lengthy technical reports which include tables, graphs, charts, or multiple columns. Uses either different word processing packages or many different style macros or special command functions; independently completes assignments and resolves problems.

Computer Operator V

The Computer Operator V resolves a variety of difficult operating problems (e.g. making unusual equipment connections and rarely used equipment and channel configurations to direct processing through or around problems in equipment, circuits, or channels or reviewing test run requirements and developing unusual system configurations that will allow test programs to process without interfering with ongoing job requirements). In response to computer output instructions and error conditions or to avoid loss of information or to conserve computer time, operator deviates from standard procedures. Such actions may materially alter the computer unit's production plans. This operator may spend considerable time away from the control station providing technical assistance to lower level operators and assisting programmers, systems analysts, and subject matter specialists with resolution of problems.

Janitor

The Janitor cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve a combination of the following: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms.

Excluded are:

- a. Workers who specialize in window washing.
- b. Housekeeping staff who make beds and change linens as a primary responsibility
- c. Workers required to disassemble and assemble equipment in order to clean machinery.
- d. Workers who receive additional compensation to maintain sterile facilities or equipment.

Laborer, Grounds Maintenance

The Laborer, Grounds Maintenance maintains grounds of industrial, commercial or public property such as buildings, camp and picnic grounds, parks, playgrounds, greenhouses, and athletic fields, and repairs structures and equipment, performing one or more of the following tasks: cut grass, using walking-type or riding mowers (less than 2000 lbs.), trim hedges and edges around walks, flowerbeds, and wells, using hedge trimmers, clippers and edging tools, prunes shrubs and trees to shape and improve growth, using shears and other hand tools, sprays lawn, shrubs, and trees with fertilizer or insecticide. Job duties also include the following: planting grass, flowers, trees, and shrubs, watering lawn and shrubs during dry periods, using hose or activating sprinkler system, picks up and burns or carts away leaves, paper or other litter; removing snow from walks, driveways, roads, or parking lots, using shovel and snow blower, spreads salt on walkways and other areas, repairing and painting fences, gates, benches, tables, guardrails, and outbuildings. This Worker assists in repair of roads, walks, buildings, and mechanical equipment, and may clean comfort stations, offices workshop areas, and parking lots by sweeping, washing, mopping and polishing.

Tractor Operator

The Tractor Operator drives gasoline or diesel powered tractor to: move materials, draw implements, tow trailers, pull out objects embedded in ground, or pull cable of winch to raise, lower, or load heavy material or equipment. The Tractor Operator fastens attachments such as graders, plows, rollers, mowers (over 2000 lbs.), backhoes, seeders, and disc harrows to tractor, adjusts equipment for proper operation, lubricates and makes minor repairs to tractor and attachments such as tightening bolts, and replacing washers, cotter pins, and screws.

Forklift Operator

The Forklift Operator operates a manually controlled gasoline, electric or liquid propane gas powered forklift to transport goods and materials of all kinds within a warehouse, manufacturing plant, or other establishment.

Material Handling Laborer

This person will perform physical tasks to transport or store materials or merchandise. Duties involve one or more of the following: manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by hand truck, cart, or wheelbarrow. Excluded from this definition are workers whose primary function involves: a. Participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process); b. Stocking merchandise for sale; c. Counting or routing merchandise; d. Operating a crane or heavy-duty motorized vehicle such as forklift or truck; e. Loading and unloading ships (alongshore workers); f. Traveling on trucks beyond the establishment's physical location to load or unload merchandise.

Shipping/Receiving Clerk

The Shipping/Receiving Clerk performs clerical and physical tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, this worker follows established guidelines. In handling unusual non-routine problems, this worker receives specific guidance from supervisor or other officials. This incumbent may direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received. Shipping duties typically involve the following: verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles, and preparing and keeping records of goods shipped, e.g., manifests, bills of lading. Receiving duties typically involve the following: verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records, checking for damaged goods, insuring that goods are appropriately identified for routing to departments within the establishment, and preparing and keeping records of goods received.

Stock Clerk

The Stock Clerk receives, stores, and issues equipment, materials, supplies, merchandise, foodstuffs, or tools, and compiles stock records of items in stockroom, warehouse or storage yard. This worker sorts, or weighs incoming articles to verify receipt of items on requisition or invoice, examines stock to verify conformance to specifications, stores articles in bins, on floor or on shelves, according to identifying information, such as style, size or type of material, fills orders or issues supplies from stock, prepares periodic, special or perpetual inventory of stock, and requisitions articles to fill incoming orders. This worker also compiles reports on use of stock handling equipment, adjustments of inventory counts and stock records, spoilage of or damage to stock, location changes, and refusal of shipments, may mark identifying codes, figures, or letters on articles, may distribute stock among production workers, keeping records of material issued, may make adjustments or repairs to articles carried in stock, and may cut stock to site to fill order.

Carpenter, Maintenance

The Carpenter, Maintenance performs the carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Electrician, Maintenance

An Electrician performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves most of the following: installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, working standard computations relating to load requirements of wiring or electrical equipment, and using a variety of electrician's hand tools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Lead Electrician, Maintenance

An Electrician performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves most of the following: installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, working standard computations relating to load requirements of wiring or electrical equipment, and using a variety of electrician's hand tools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Electronics Technician III

The Electronics Technician Maintenance III applies advanced technical knowledge to solve complex problems that typically cannot be solved solely by referencing manufacturers' manuals or similar documents. Examples of such problems include determining the location and density of circuitry, evaluating electromagnetic radiation, isolating malfunctions, and incorporating engineering changes. Work typically requires an understanding of the interrelationships of circuits, exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, and tracing relationships in signal flow, using complex test instruments such as high frequency pulse generators, frequency synthesizers, distortion analyzers, and complex computer control equipment. Work may be reviewed by supervisor for general compliance with accepted practices. This position may provide technical guidance to lower level technicians.

General Maintenance Worker

The Laborer performs tasks that require mainly physical abilities and effort involving little or no specialized skill or prior work experience. The following tasks are typical of this occupation: The Laborer loads and unloads trucks, and other conveyances, moves supplies and materials to proper location by wheelbarrow or hand truck; stacks materials for storage or binning, collects refuse and salvageable materials, and digs, fills, and tamps earth excavations, The Laborer levels ground using pick, shovel, tamper and rake, shovels concrete and snow; cleans culverts and ditches, cuts tree and brush; operates power lawnmowers, moves and arranges heavy pieces of office and household furniture, equipment, and appliance, moves heavy pieces of automotive, medical engineering, and other types of machinery and equipment, spreads sand and salt on icy roads and walkways, and picks up leaves and trash.

HRAC Mechanic

The Heating, Ventilation, and Air Conditioning Mechanic (Research Facility) installs, modifies and repairs refrigeration - hermetic, semi-hermetic, mechanical, screw, scroll and centrifugal units to 1100 tons; air conditioning, ventilation; reverse osmosis systems, computer rooms; process coolers; ice machines; evaporative cooling; air compressing and related control systems, including pneumatic, DDC, and building control systems equipment. This person performs difficult installation tasks involving assembly, testing, calibrating, and adjusting of temperature control and environmental control systems such as air conditioning plants, air environmental control systems, air distribution systems and complex dual equipment cooling installations, specialized refrigerated warehouses and facilities, and evaporative mechanical ventilation, and dehumidification systems.

The Heating, Ventilation, and Air Conditioning Mechanic (Research Facility) installs new or repaired component and performs complex modifications of systems and components in accordance with applicable electrical publications and directives, and will maintain and repair specialized laboratory equipment such as fume hoods, de-ionized water systems, bio-clean systems, vacuum systems, cascade refrigeration systems, and laboratory sinks. This mechanic may perform complex repair of systems component such as compressors, condensers, heat pumps regulators, fluid and refrigerant gas lines valves, meters, gages, thermostats, pumps, mechanical linkage, and electrical sensing, switching and controlling devices including pneumatic controls, variable speed drives, digital controlled devices, electronic, hydraulic heating and cooling and economizer systems

Lead HRAC Mechanic

The Heating, Ventilation, and Air Conditioning Mechanic (Research Facility) installs, modifies and repairs refrigeration - hermetic, semi-hermetic, mechanical, screw, scroll and centrifugal units to 1100 tons; air conditioning, ventilation; reverse osmosis systems, computer rooms; process coolers; ice machines; evaporative cooling; air compressing and related control systems, including pneumatic, DDC, and building control systems equipment. This person performs difficult installation tasks involving assembly, testing, calibrating, and adjusting of temperature control and environmental control systems such as air conditioning plants, air environmental control systems, air distribution systems and complex dual equipment cooling installations, specialized refrigerated warehouses and facilities, and evaporative mechanical ventilation, and dehumidification systems.

The Heating, Ventilation, and Air Conditioning Mechanic (Research Facility) installs new or repaired component and performs complex modifications of systems and components in accordance with applicable electrical publications and directives, and will maintain and repair specialized laboratory equipment such as fume hoods, de-ionized water systems, bio-clean systems, vacuum systems, cascade refrigeration systems, and laboratory sinks. This mechanic may perform complex repair of systems component such as compressors, condensers, heat pumps regulators, fluid and refrigerant gas lines valves, meters, gages, thermostats, pumps, mechanical linkage, and electrical sensing, switching and controlling devices including pneumatic controls, variable speed drives, digital controlled devices, electronic, hydraulic heating and cooling and economizer systems

Instrument Mechanic

The Instrument Mechanic installs, repairs, maintains, and adjusts indicating, recording, telemetering, and controlling instruments used to measure and control variables, such as pressure, flow, temperature, motion, force, and chemical composition, using hand tools and precision instruments. This worker disassembles malfunctioning instruments, examines and tests mechanism and circuitry for defects; troubleshoots equipment in or out of control system and replaces or repairs defective parts, reassembles instrument and tests assembly for conformance with specifications, using instruments, such as potentiometer, resistance bridge, manometer, and pressure gauge; inspects instruments periodically, and makes minor calibration adjustments to insure functioning within specified standards. This mechanic may adjust and repair final control mechanisms, such as automatically controlled valves or positioners, and may calibrate instruments according to established standards.

Laborer, Maintenance

The Laborer performs tasks that require mainly physical abilities and effort involving little or no specialized skill or prior work experience. The following tasks are typical of this occupation: The Laborer loads and unloads trucks, and other conveyances, moves supplies and materials to proper location by wheelbarrow or hand truck; stacks materials for storage or binning, collects refuse and salvageable materials, and digs, fills, and tamps earth excavations, The Laborer levels ground using pick, shovel, tamper and rake, shovels concrete and snow; cleans culverts and ditches, cuts tree and brush; operates power lawnmowers, moves and arranges heavy pieces of office and household furniture, equipment, and appliance, moves heavy pieces of automotive, medical engineering, and other types of machinery and equipment, spreads sand and salt on icy roads and walkways, and picks up leaves and trash.

Maintenance Trades Helper

The Maintenance Trades Helper assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill such as: keeping a worker supplied with materials and tools, cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade. In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas and in others, the worker is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

Painter, Maintenance

The Painter, Maintenance paints and redecorates walls, woodwork and fixtures. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. This person may mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Pipefitter, Maintenance

The Pipefitter, Maintenance installs or repairs water, steam, gas or other types of pipe and pipefitting. Work involves most of the following: laying out work and measuring to locate position of pipe from drawings or other written specifications, cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines, threading pipe with stocks and dies. This person is responsible for bending pipe by hand-driven or power-driven machines, assembling pipe with couplings and fastening pipe to hangers, making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the Maintenance Pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.

Lead Pipefitter, Maintenance

The Pipefitter, Maintenance installs or repairs water, steam, gas or other types of pipe and pipefitting. Work involves most of the following: laying out work and measuring to locate position of pipe from drawings or other written specifications, cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines, threading pipe with stocks and dies. This person is responsible for bending pipe by hand-driven or power-driven machines, assembling pipe with couplings and fastening pipe to hangers, making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the Maintenance Pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.

Plumber, Maintenance

The Plumber, Maintenance assembles, installs and repairs pipes, fittings and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes, studies building plans and working drawings to determine work aids required, and sequence of installations. This worker inspects structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe, and locates and marks position of pipe and pipe connections and passage holes for pipes in walls and floors.

This worker cuts openings in walls and floors to accommodate pipe and pipe fittings, using hand tools and power tools, cuts and threads pipe, using pipe cutters, cutting torch, and pipe-threading machine, bends pipe to required angle by use of pipe-bending machine, or by placing pipe over block and bending it by hand. The Plumber, Maintenance assembles and installs valves, pipefittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic. This person joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and caulks joints, fills pipe system with water or air and reads pressure gauges to determine whether system is leaking, installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. This person repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes, and opening clogged drains, and may weld holding fixtures to steel structural members.

Sheetmetal Worker - Maint.

The Sheet-Metal Worker, Maintenance fabricates, installs and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves most of the following: planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications, setting up and operating all available types of sheet-metal working machines, using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling, and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Welder, Maintenance

This incumbent welds metal components together to fabricate or repair products, such as machine parts, plant equipment, mobile homes, motors and generators, according to layouts, blueprints or work orders, using brazing and a variety of arc and gas welding equipment. This worker welds metal parts together, using both gas welding or brazing and any combination of arc welding processes, performs related tasks such as thermal cutting and grinding, repairs broken or cracked parts, fills holes and increases size of metal parts, positions and clamps together components of fabricated metal products preparatory to welding. This worker may locate and repair cracks in industrial engine cylinder heads, using inspection equipment and gas torch, may perform repairs only and be required to pass employer performance tests or standard tests to meet certification standards of governmental agencies or professional and technical associations

Woodcraft Worker

The Woodcraft Worker makes and repairs high-grade wooden items such as fine cabinets and furniture, studies blueprints or drawings of articles to be constructed or repaired, and plans sequence of cutting or shaping operations to be performed. This worker marks outline or dimensions of parts on paper or lumber stock, according to blueprint or drawing specifications, matches materials for color, grain, or texture, sets up and operates woodworking machines, such as power saws, jointer, mortiser, tenoner, molder, and shaper, to cut and shape parts from woodstock. This worker trims component parts of joints to insure snug fit, using hand tools, such as planes, chisels, or wood files; bores holes for insertion of screws or dowels by hand or using boring machine, glues, fits, and clamps parts and subassemblies together to form complete unit using clamps or clamping machine, and drives nails or other fasteners into joints at designated places to reinforce joints. This worker sands and scrapes surfaces and joints of articles to prepare articles for finishing, may dip, brush, or spray assembled articles with protective or decorative materials, such as stain, varnish or paint, and may install hardware, such as hinges, catches, and drawer pulls.

Stationary Engineer

The Stationary Engineer operates and maintains one or more systems that provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high- temperature water or electricity. Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided, recording in logs various aspects of the system's operation, keeping the engines, machinery and equipment of the system in good working order. This engineer may direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems. The classification excludes head or chief engineers in establishments employing more than one engineer. Workers are required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale, and Boiler Tenders.

Lead Stationary Engineer

The Stationary Engineer operates and maintains one or more systems that provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high- temperature water or electricity. Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided, recording in logs various aspects of the system's operation, keeping the engines, machinery and equipment of the system in good working order. This engineer may direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems. The classification excludes head or chief engineers in establishments employing more than one engineer. Workers are required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale, and Boiler Tenders.

Water Treatment Plant Operator

This position controls treatment plant machines and equipment to purify and clarify water for human consumption and for industrial use. This person operates and controls electric motors, pumps, and valves to regulate flow of raw water into treating plant and dumps specified amounts of chemicals such as chlorine, ammonia, and lime into water, or adjusts automatic devices that admit specified amounts of chemicals into tanks to disinfect, deodorize, and clarify water. This person starts agitators to mix chemicals and allows impurities to settle to bottom of tank, turns valves to regulate water through filter beds to remove impurities, pumps purified water into water mains, monitors panel board and adjusts controls to regulator flow rates, loss of head pressure and water elevation and distribution of water. This operator cleans tanks and filter beds, using backwashing (reverse flow of water), repairs and lubricates machines and equipment, using hand- and power tools, tests water samples to determine acidity, color, and impurities, using colorimeter, turbidimeter, and conductivity meter. Work includes dumping chemicals such as alum into tanks to coagulate impurities and reduce acidity, recording data, such as residual content of chemicals, water turbidity, and water pressure. This operator may operate portable water-purification plant to supply drinking water, and purify wastewater from plant preparatory to pumping water into rivers and streams or city mains.

Engineering Tech VI

This technician independently plans and accomplishes complete projects or studies of broad scope and complexity, or serves as an expert in a narrow aspect of a particular field of engineering, e.g., environmental factors affecting electronic engineering. Complexity of assignments typically requires considerable creativity and judgment to devise approaches to accomplish work, resolve design and operational problems, and make decisions in situations where standard engineering methods, procedures, and techniques may not be applicable. Supervisor or professional engineer provides advice on unusual or controversial problems or policy matters. Completed work is reviewed for compliance with overall project objectives. This worker may supervise or train and be assisted by lower level technicians, and performs, one or a combination of the following:

- a. Prepares designs and specifications for various complex equipment or systems (e.g., a heating system in an office building, or new electronic components such as solid state devices for instrumentation equipment).
- b. Plans approach to solve design problems; conceives and recommends new design techniques; resolves design problems with contract personnel, and assures compatibility of design with other parts of the system.
- c. Designs and coordinates test set-ups and experiments to prove or disprove the feasibility of preliminary design; uses untried and untested measurement techniques; and improves the performance of the equipment. May advise equipment users on redesign to solve unique operational deficiencies.
- d. Plans approach and conducts various experiments to develop equipment or systems characterized by (a) difficult performance requirements because of conflicting attributes such as versatility, size, and ease of operation; or (b) unusual combination of techniques or components. Arranges for fabrication of pilot models and determines test procedures and design of special test equipment.

Environmental Tech

The Environmental Technician conducts tests and field investigations to obtain data for use by environmental, engineering and scientific personnel in determining sources and methods of controlling pollutants in air, water, and soil, utilizing knowledge of agriculture, chemistry, meteorology, and engineering principles and applied technologies. This worker conducts chemical and physical laboratory and field tests according to prescribed standards to determine characteristics or composition of solid, liquid, or gaseous materials and substances, using pH meter, chemicals, autoclaves, centrifuge spectrophotometer, microscope, analytical instrumentation, and chemical laboratory equipment.

This worker collects samples of gases from smokestacks, and collects other air samples and meteorological data to assist in evaluation of atmospheric pollutants; collects water samples from streams and lakes, or raw, semi-processed or processed water, industrial waste water, or water from other sources to assess pollution problem, and collects soil, silt, or mud to determine chemical composition and nature of pollutants. This worker prepares sample for testing, records data, and prepares summaries and charts for review, sets monitoring equipment to provide flow of information, installs, operates, and performs routine maintenance on gas and fluid flow systems, chemical reaction systems, mechanical equipment, and other test instrumentation.

This worker may operate fixed or mobile monitoring or data collection station, may conduct bacteriological or other tests related to research in environmental or pollution control activity, may collect and analyze engine exhaust emissions to determine type and amount of pollutants, and may specialize in one phase or type of environmental pollution or protection and be identified according to specialty.

Truck Driver - Heavy Duty

The Truck driver drives a truck to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. This driver may also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Sales route and over-the-road drivers are excluded. An over-the-road driver regularly drives a truck over such a distance that the worker does not return to the departure point in the same workday, or is a worker who is paid on a mileage or mileage plus load factor basis, and may be compensated for or provided meals or lodging or both. For wage study purposes, Truck Drivers are classified by type and the rated capacity of truck. Rated capacity is the gross vehicle weight minus the empty weight of the vehicle: TRUCKDRIVER, HEAVY Straight truck, over 4 tons, usually 10 wheels

EXEMPT LABOR CATEGORY DESCRIPTIONS

Project Manager

Total Management responsibility for project or contract operations. Manage administrative, professional, supervisory personnel. Assure quality of work, safety and productivity of project employees and subcontractors. Provide consistent point of contact for clients contracting officer and technical representatives. Assure compliance of contractor's operation with contract provisions and all federal and state regulations incorporated therein. Bachelor of Science degree in engineering or management with five years' experience in management/supervision, or ten years' experience in management/supervision with no degree.

Mechanical Engineer

Management responsibility of mechanical engineering projects where technical compliance and coordination is essential to the successful completion of the project. Review of statement of work along with plans and specifications to assure the contractor's work complies. Coordinate submittals required for approval by client and or their design representative. Oversee subcontractor's to assure technical compliance of their work. Establish and control project schedules and critical path for completion. A mechanical or industrial engineering degree with five years' experience in mechanical engineering. Would consider ten years' experience in mechanical engineering without degree if experience is specific to required project task.

Electrical Engineer

Management responsibility of electrical engineering projects where technical compliance and coordination is essential to the successful completion of the project. Review of statement of work along with plans and specifications to assure the contractor's work complies. Coordinate submittals required for approval by client and or their design representative. Oversee subcontractor's to assure technical compliance of their work. Establish and control project schedules and critical path for completion. An electrical engineering degree with five years' experience in electrical engineering. Would consider ten years' experience in electrical engineering without degree if experience is specific to required project task.

Safety Engineer

Management responsibility to coordinate all aspects of Project Safety Program. Assure compliance with all federal, state and local safety regulations. Produce and maintain all Safety Compliance plans including emergency response, Drug Free Workplace Programs, Safety Training, Accident and Loss Prevention and OSHA recordkeeping requirements. Coordinate with all subcontractor's to assure compliance with the above programs. Five years' experience as a safety engineer or manager as well as post-secondary education or training in the safety field.

Quality Assurance Manager

Management responsibility to direct Quality Assurance and Control Plans. Direct routine, random and final inspection of service products pertaining to the Operations and Maintenance of a Facility and related equipment.

Initiate corrective actions for any deficiencies found in Quality System. Five years' experience in managing a Quality Assurance System in an industrial or institutional setting along with post-secondary education or training in the field.

EXEMPT LABOR CATEGORY DESCRIPTIONS

Commissioning Agent

Technically qualified to manage and coordinate building component, equipment and systems commissioning effort including start-up and initial assessment of performance in compliance with design specifications. Evaluate equipment and system performance using specialized tools and instruments and issue findings in the case of deficiencies in design performance. Coordinate corrective action for deficiencies with owner, designer and contractor. Five years' experience in the startup maintenance and repair of mechanical and electrical equipment along with post-secondary education or training in the field.

Project Manager

Coordinate programs to catalog building components, equipment and operating systems and establish a long term maintenance plan which assures the reliable and efficient operation of these components to achieve the maximum life cycle performance of each component as it relates to commissioning effort. Establish and substantiate expected cost of maintaining these components over their life expectancy cycle and develop a projected budget for these costs. Five years' experience in the maintenance and repair of mechanical, electrical and civil building components and equipment along with post-secondary education or training in the field.

Administrative Assistant

Assists the commissioning agent and project manager in the planning and directing of company operations as it relates to commissioning effort. Specific duties include but are not limited to:

- Manage accounting services for commissioning projects,
- Manage the production and reconciliation of commissioning invoicing
- Manage the commissioning services database, websites, and customer communications
- Ensure commissioning communications and deliverable deadlines are met
- Develop and create commissioning documents necessary to complete job reporting
- Manage commissioning team members to ensure timely commissioning findings
- Manage sub consultants to ensure timely delivery of technical engineering documents
- Manage customer communications to ensure job satisfactions

Davis Bacon Labor Category Descriptions

Carpenter

The Carpenter, Maintenance performs the carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Electrician

An Electrician performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves most of the following: installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, working standard computations relating to load requirements of wiring or electrical equipment, and using a variety of electrician's hand tools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Laborer

The Laborer performs tasks that require mainly physical abilities and effort involving little or no specialized skill or prior work experience. The following tasks are typical of this occupation: The Laborer loads and unloads trucks, and other conveyances, moves supplies and materials to proper location by wheelbarrow or hand truck; stacks materials for storage or binning, collects refuse and salvageable materials, and digs, fills, and tamps earth excavations, The Laborer levels ground using pick, shovel, tamper and rake, shovels concrete and snow; cleans culverts and ditches, cuts tree and brush; operates power lawnmowers, moves and arranges heavy pieces of office and household furniture, equipment, and appliance, moves heavy pieces of automotive, medical engineering, and other types of machinery and equipment, spreads sand and salt on icy roads and walkways, and picks up leaves and trash.

Painter

The Painter, Maintenance paints and redecorates walls, woodwork and fixtures. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. This person may mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Cement Mason

This is the skilled journey level classification in this specialized trade, which performs the full range of construction, maintenance and repair duties on a wide variety of cement and masonry facilities and structures throughout the County. Work may vary, depending upon the department to which assigned, but all positions are characterized by a developed skill in the trade. Responsibilities also include the direction of an assistant or a crew on a project or team basis. This class is distinguished from other maintenance and repair classes by the requirement for specialized, well-developed skills in the cement mason craft area, rather than general facility maintenance or another recognized craft specialty area.

Sheet Metal Worker

The Sheet-Metal Worker, Maintenance fabricates, installs and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves most of the following: planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications, setting up and operating all available types of sheet-metal working machines, using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling, and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Plumber

The Plumber, Maintenance assembles, installs and repairs pipes, fittings and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes, studies building plans and working drawings to determine work aids required, and sequence of installations. This worker inspects structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe, and locates and marks position of pipe and pipe connections and passage holes for pipes in walls and floors.

This worker cuts openings in walls and floors to accommodate pipe and pipe fittings, using hand tools and power tools, cuts and threads pipe, using pipe cutters, cutting torch, and pipe-threading machine, bends pipe to required angle by use of pipe-bending machine, or by placing pipe over block and bending it by hand. The Plumber, Maintenance assembles and installs valves, pipefittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic. This person joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and caulks joints, fills pipe system with water or air and reads pressure gauges to determine whether system is leaking, installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. This person repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes, and opening clogged drains, and may weld holding fixtures to steel structural members.

Pipefitter

The Pipefitter, Maintenance installs or repairs water, steam, gas or other types of pipe and pipefitting. Work involves most of the following: laying out work and measuring to locate position of pipe from drawings or other written specifications, cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines, threading pipe with stocks and dies. This person is responsible for bending pipe by hand-driven or power-driven machines, assembling pipe with couplings and fastening pipe to hangers, making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the Maintenance Pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.