Multiple Award Schedule (MAS)

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

Prices Shown Herein are Net (discount deducted)

**Contract Number:** 47QSHA20D002K
**Contract Period:** April 22, 2020 through April 21, 2025
**Federal Supply Group:** Facilities
**FSC/PSC Code:** R799, 0000
**Contractor Name:** RELYANT Global, LLC
**Address:** 335 High Street
Maryville, TN 37804
**Phone Number:** 865-984-1330
**Fax Number:** 865-322-9713
**E-mail:** ctwiner@relyantglobal.com
**Website:** www.relyantglobal.com/
**Contract Administrator:** Chris Twiner
**Business Size:** Small Business

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at fss.gsa.gov.
Customer Information

1a. Table of awarded special item number(s) with appropriate cross-reference to item descriptions and awarded price(s).

<table>
<thead>
<tr>
<th>Special Item Number</th>
<th>Special Item Number Description</th>
<th>Description Page</th>
<th>Awarded Price Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>561210FAC/RC</td>
<td>Complete Facilities Maintenance and Management</td>
<td>5 – 26</td>
<td>27 – 30</td>
</tr>
<tr>
<td>OLM/RC</td>
<td>Order-Level Materials (OLM)</td>
<td>Defined at Order Level</td>
<td>Defined at Order Level</td>
</tr>
</tbody>
</table>

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply. N/A

1c. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibility and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate “Not applicable” for this item. See Pages 5 – 26

2. Maximum order:

<table>
<thead>
<tr>
<th>Special Item Number</th>
<th>Maximum Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>561210FAC/RC</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>OLM/RC</td>
<td>$250,000</td>
</tr>
</tbody>
</table>

3. Minimum order: $100

4. Geographic coverage (delivery area): Domestic and Overseas

5. Point of production: U.S.

6. Discount from list prices or statement of net price: Prices shown herein are net prices

7. Quantity discounts: None

8. Prompt payment terms: Net 30. Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.

9a. Government purchase cards are accepted at or below the micro purchase threshold.

9b. Government purchase cards are accepted above the micro purchase threshold.

10. Foreign items: N/A

11a. Time of delivery: TBD at Task Order Level
11b. Expedited delivery: Items available for expedited delivery are noted in this price list contact contractor.

11c. Overnight and 2-day delivery: Contact Contractor

11d. Urgent requirements: Please note the Urgent Requirements clause of this contract and contact contractor.

12. F.O.B. Point: Destination

13a. Ordering address: RELYANT Global, LLC
Attn: Alix King
335 High Street
Maryville, TN 37804
aking@relyantglobal.com

13b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA’s) are found in Federal Acquisition Regulation (FAR) 8.405-3.

14. Payment address: RELYANT Global, LLC
Attn: Accounting
335 High Street
Maryville, TN 37804
invoices@relyantglobal.com

15. Warranty provision:

   Domestic Locations: RELYANT Global LLC warrants that work performed under this contract or order conforms to the contract/order requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty applies for a period of 1 year from the date of final acceptance of the work. If the Owner takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the Owner takes initial possession.

   Overseas Locations: RELYANT Global, LLC. warrants that work performed under this contract or order conforms to the contract/order requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty applies for a period of 90 days from the date of final acceptance of the work. If the Owner takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 90 days from the date the Owner takes initial possession. RELYANT and/or its subcontractor(s) will provide supply parts and labor required under the warranty provisions free of charge.

16. Export packing charges, if applicable: N/A

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level): Government purchase cards are accepted above the micro purchase threshold.

18. Terms and conditions of rental, maintenance, and repair (if applicable): N/A

19. Terms and conditions of installation (if applicable): N/A
20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable): N/A

20a. Terms and conditions for any other services (if applicable): N/A

21. List of service and distribution points (if applicable): N/A

22. List of participating dealers (if applicable): N/A

23. Preventative maintenance (if applicable): N/A

24a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants): N/A

24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contractor’s website or other location.) The EIT standards can be found at: www.Section508.gov/

25. Data Universe Number System (DUNS): 065589805

26. Notification regarding registration in System for Award Management (SAM) database: RELYANT Global LLC is registered in the System for Award Management (SAM) database.
Labor Category Descriptions SIN 561210FAC

Wage Determination Labor Categories

Substitutions for SCLS Labor Categories: High School Diploma or GED or related years of experience.

11000 – General Services and Support Occupations
This category includes occupations concerned with moving and handling materials (e.g., loading, unloading, digging, hauling, hoisting, carrying, wrapping, mixing, pouring, spreading); washing and cleaning laboratory apparatus, cars and trucks; cleaning and maintaining living quarters, hospital rooms and wards, office buildings, grounds, and other areas; and doing other general maintenance work, by hand or using common hand tools and power equipment. These occupations may involve heavy or light physical work and various skill levels. Skills are generally learned through job experience and instruction from supervisors or, in some instances, short-term formal training programs.

11030 CLEANER, VEHICLES
The Cleaner, Vehicles cleans interiors and exteriors of transportation vehicles, such as automobiles, buses, railroad cars, and streetcars, cleans interior of vehicle, using broom, cloth, mop, vacuum cleaner, and whiskbroom, cleans windows with water, cleansing compounds, and cloth or chamois, replenishes sanitary supplies in vehicle compartments, removes dust, grease, and oil from exterior surfaces of vehicles, using steam-cleaning equipment or by spraying or washing vehicles, using spraying equipment, brush or sponge. The Cleaner may polish exterior of vehicle, and may fumigate interior of vehicle, using fumigating gases or sprays.
Qualifications and Experience: High School Diploma and 2 years experience

11060 ELEVATOR OPERATOR
The Elevator Operator operates elevator to transport passengers or freight between floors of a building such as a department store, hotel, office building, apartment house, or manufacturing plant, pushes buttons or moves levers on signal or instructions from passengers or others to control movement of elevator, opens and closes safety gate and elevator door at each floor where stop is made, may supply information to passengers concerning location of offices, merchandise, and individuals, distribute mail to various floors, answer telephone, and prevent unauthorized persons from entering building; may load or unload freight or assist other employees to do so, transport freight from elevator to designated area, using hand truck, and may sweep or vacuum elevator.
Qualifications and Experience: High School Diploma and 2 years experience

11122 HOUSE KEEPING AIDE
The Housekeeping Aide performs special cleaning projects as well as daily cleaning duties in accordance with standard procedures of the housekeeping department and with hospital objectives. An employee uses cleaning equipment, including automatic floor machines, commercial vacuums, wet mops, large wringers and other necessary equipment, tools, chemicals and supplies. The Housekeeping Aide will dry and wet mop floors, scrub and buff floors with rotor and other machines, vacuum carpets to clean and control bacteria, transport trash from utility rooms and other collection points to incinerator, compactor, or pick-up area, perform special cleaning of induction units, walls, lighting fixtures, and windows, both inside and outside, move furniture and set up meeting rooms. This Aide collects soiled linen, assists in cleaning emergency spills that are observed or as requested, maintains assigned equipment for
cleanliness and requests repairs when needed, reports need for repairs to hospital equipment, furniture, building and fixtures, assists in moving patients in case of fire, disaster or emergency evacuation, and assists security personnel in restraining disturbed patients in psychiatric wards.

**Qualifications and Experience:** High School Diploma and 2 years experience

11150 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 establishments. 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.

**Qualifications and Experience:** High School Diploma and 2 years experience

11210 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.

**Qualifications and Experience:** High School Diploma and 2 years experience

14000 INFORMATION TECHNOLOGY OCCUPATIONS

This category includes occupations concerned with the utilization of the computer in the analysis and solution of business, scientific, engineering and other technical problems to include the following: operating electronic, optical, and electromechanical machines that record, store, process, and transcribe data from magnetic tape or other sources to solve mathematical, engineering, accounting, or technical problems, to keep records or to supply information; programming computer languages to perform mathematical, engineering and scientific computations or auditing, payroll, mailing list and text handling functions; and storing and retrieving computer files.

14170 SYSTEM SUPPORT SPECIALIST

This position provides troubleshooting assistance and problem resolution for computer systems in a variety of environments. Such assistance and resolution is provided for personal computers, mini/mainframe computers, client servers as well Local Area Networks (LANs), Wide Area Networks (WANs), and web pages.

**Qualifications and Experience:** High School Diploma and 2 years experience
19000 – Machine Tool Operation and Repair Occupations

This category includes occupations concerned with setting up and operating machine tools and using hand tools to make or repair (shape, fit, finish, assemble) metal parts, tool, gauges, models, patterns, mechanism, and machines.

19010 MACHINE-TOOL OPERATOR (TOOL ROOM)

Someone in this position specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). Work typically involves: planning and performing difficult machining operations which require complicated setups or a high degree of accuracy, setting up machine tool or tools (e.g., installing cutting tools and adjusting guides, stops, working tables, and other controls to handle the size of stock to be machined. The Machine Tool Operator determines proper feeds, speeds, tooling, and operation sequence or selects those prescribed in drawings, blueprints, or layouts). Work also involves using a variety of precision measuring instruments, making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. This worker may be required to select proper coolants and cutting and lubricating oils to recognize when tools need dressing, and to dress tools. In general, the work of a Machine-Tool Operator (Tool room) at the skill level called for in this classification, requires extensive knowledge of machine shop and tool room practice usually acquired though considerable on-the-job training and experience.

Qualifications and Experience: High School Diploma and 2 years experience

21000 - MATERIALS HANDLING AND PACKING OCCUPATIONS

This category includes occupations concerned with preparing and arranging materials and products in bulk and nonbulk forms for distribution or storage; moving and loading or unloading equipment, materials, and products; operating or tending pipelines, pumps and valves to transfer liquids; driving forklifts and related material-handling machinery and equipment; and using scoops, hand trucks, and wheelbarrows to load and move materials.

21020 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.

Qualifications and Experience: High School Diploma and 2 years experience

21030 MATERIAL COORDINATOR

The Material Coordinator coordinates and expedites flow of material, parts, and assemblies within or between departments in accordance with production and shipping schedules or department supervisors' priorities. In this job, the Material Coordinator reviews production schedules and confers with department supervisors to determine material required or overdue and to locate material, requisitions material and establishes delivery sequences to departments according to job order priorities and anticipated availability of material; arranges for in-plant transfer of materials to meet production schedules, and with department supervisors for repair and assembly of material and its transportation to various departments, and examines material delivered to production departments to verify if type specified. This Worker may monitor and control movement of material and parts along conveyor system, using remote-control panel board, compute amount of material needed for specific job orders, applying knowledge of product and manufacturing processes and using adding machine; compile report of quantity and type of material on hand, move or transport material from one department to another, using
hand or industrial truck; may compile perpetual production records in order to locate material in process of production, using manual or computerized system, and maintain employee records.

**Qualifications and Experience:** High School Diploma and 2 years experience

21040 MATERIAL EXPEDITER
The Material Expediter executes the following: locates and moves materials and parts between work areas of plant to expedite processing of goods, according to pre-determined schedules and priorities, and keeps related record, reviews production schedules inventory reports, and work orders to determine types, quantities, and availability of required material and priorities of customer orders, confers with department supervisors to determine materials overdue and to inform them of location, availability, and condition of materials, locates and moves materials to specified production areas, using cart or hand truck, and records quantity and type of materials distributed and on hand. Work may include the following tasks: directing Power-Truck Operator or Material Handling Laborer to expedite movement of materials between storage and production areas, compare work ticket specifications with material at work stations to verify appropriateness of material in use, prepare worker production records and timecards, and may update and maintain inventory records, using computer terminal.

**Qualifications and Experience:** High School Diploma and 2 years experience

21050 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.

**Qualifications and Experience:** High School Diploma and 2 years experience

21130 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.

**Qualifications and Experience:** High School Diploma and 2 years experience

21410 WAREHOUSE SPECIALIST
(Warehouse Worker)
As directed, the Warehouse Specialist performs a variety of warehousing duties that require an understanding of the establishment's storage plan. Work involves most of the following: verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages, routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods, rearranging and taking inventory of stored materials, examining stored materials and reporting deterioration and damage, removing material from storage and preparing it for shipment. This worker may operate hand or power trucks in performing warehousing duties. Note: Exclude workers whose primary duties involve shipping and receiving work (see Shipping/Receiving Clerk), order filling (see Order Filler), or operating forklifts (see Forklift Operator).

**Qualifications and Experience:** High School Diploma and 2 years experience

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**23000 - MECHANICS AND MAINTENANCE AND REPAIR OCCUPATIONS**

This category includes occupations concerned with maintaining and repairing buildings, grounds, and related facilities; installing, repairing, rebuilding, and maintaining in efficient operating condition a wide variety of engines and mechanical equipment designed for use in domestics, commercial, industrial, and agricultural activities.

**23160 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.

**Qualifications and Experience:** High School Diploma and 2 years experience

**23290 FIRE ALARM SYSTEM MECHANIC**

The Fire Alarm System Mechanic inspects, tests, maintains, and repairs installed fire alarm detection and suppression systems in accordance with manufacturer's specifications and National Fire Protection Association standards, inspects fire alarm equipment visually and replaces defective components, tests initiating and signal circuits, detectors, and system transmitter, makes needed repairs, and checks pressure gauges on suppression system storage containers and recharges or replaces containers.

**Qualifications and Experience:** High School Diploma and 2 years experience

**23310 FIRE EXTINGUISHER REPAIRER**

The Fire Extinguisher Repairer performs the following duties: repairs and tests fire extinguishers in repair shops and in establishments, such as factories, homes, garages, and office buildings, Using hand tools and hydrostatic test equipment, this repairer dismantles extinguisher and examines tubings, horns, head gaskets, cutter disks, and other parts for defects, and replaces worn or damaged parts. Using hand tools, this repairer cleans extinguishers and recharges them with materials, (such as soda water and sulfuric acid, carbon tetrachloride, nitrogen or patented solutions); tests extinguishers for conformity with legal specifications using hydrostatic test equipment and may install cabinets and brackets to hold extinguishers.

**Qualifications and Experience:** High School Diploma and 2 years experience
23311 FUEL DISTRIBUTION SYSTEM MECHANIC
The Fuel Distribution System Mechanic maintains and repairs fuel storage and distribution systems, using hand and power tools and testing instruments, inspects fuel receiving, storage, and distribution facilities to detect and correct leakage, corrosion, faulty fittings, and malfunction of mechanical units, meters, and gauges, (such as distribution lines, float gauges, piping valves, pumps, and roof sumps); inspects electrical wiring, switches, and controls for safe operating condition, grounding, and adjustment, lubricates and repacks valves; lubricates pumps, replaces gaskets, seals and corrects pumping equipment misalignment, and cleans strainers and filters. This mechanic services water separators, checks meters for correct delivery and calibration, overhauls system components such as pressure regulating valves and excess valves, disassembles, adjusts, aligns, and calibrates gauges and meters or replaces them, removes and installs equipment such as filters and piping to modify system or repair and replace system component. Duties include: cleaning fuel tanks and distribution lines, removing corrosion and repainting surfaces, overhauling vacuum and pressure vents, floating roof seals, hangers, and roof sumps, and maintaining record of inspections and repairs.

Qualifications and Experience: High School Diploma and 2 years experience

23312 FUEL DISTRIBUTION SYSTEM OPERATOR
The Fuel Distribution System Operator receives, stores, transfers, and issues fuel through pipelines at main line or terminal stations, receives fuel by tanker, ships fuel by pipeline, tank car, tank truck, and barge, prepares and checks receiving or ship's documents, connects lines, grounding wires, and loading and offloading arms or hoses to pipelines; and visually inspects samples of fuel, and checks gravity and flashpoint. This operator gauges tanks for water, temperature, and fuel levels, checks pumping systems for correct operating pressure or unusual noises, performs preventive maintenance and repairs on terminal systems, assists in maintenance of government-owned railroad loading and switch area, performs general housekeeping and grounds maintenance for terminal, pipeline and dock areas.

Qualifications and Experience: High School Diploma and 2 years experience

23370 GENERAL MAINTENANCE WORKER
The General Maintenance Worker performs general maintenance and repair of equipment and buildings requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work involves a variety of the following duties: replacing electrical receptacles, wires, switches, fixtures, and motors, using plaster or compound to patch minor holes and cracks in walls and ceilings, repairing or replacing sinks, water coolers, and toilets painting structures and equipment; repairing or replacing concrete floors, steps, and sidewalks, replacing damaged paneling and floor tiles, hanging doors and installing door locks, replacing broken window panes, and performing general maintenance on equipment and machinery. Excluded are: a. Craft workers included in a formal apprenticeship or progression program based on training and experience; b. Skilled craft workers required to demonstrate proficiency in one or more trades; c. Workers performing simple maintenance duties not requiring practical skill and knowledge of a trade (e.g., changing light bulbs and replacing faucet washers).

Qualifications and Experience: High School Diploma and 2 years experience

23410 HEATING, VENTILATION AND AIR-CONDITIONING MECHANIC
The Heating, Ventilation, and Air-Conditioning Mechanic installs, services and repairs environmental-control systems in residences, department stores, office buildings, and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout, mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications, fabricates, assembles and installs ductwork and chassis parts, using portable metalworking tools and welding equipment, and installs evaporator unit in chassis or in air-duct system, using hand tools. This
mechanic also cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools, cuts and threads pipe, using machine threading or hand-threading equipment, joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant, installs expansion and discharge valves in circuit. This worker connects motors, compressors, temperature controls, humidity controls, and circulating ventilation fans to control panels and connects control panels to power source; installs air and water filters in completed installation, injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. This mechanic observes pressure and vacuum gauges and adjusts controls to insure proper operation, tests joints and connections for gas leaks, using gauges or soap-and-water solution, wraps pipes in insulation batting and secures them in place with cement or wire bands, replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, may install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity in warehouses and small factory buildings.

**Qualifications and Experience:** High School Diploma and 2 years experience

23411 HEATING, VENTILATION AND AIR-CONDITIONING MECHANIC (RESEARCH FACILITY)
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, deionized 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.

**Qualifications and Experience:** High School Diploma and 4 years experience

23430 HEAVY EQUIPMENT MECHANIC
The Heavy Equipment Mechanic analyzes malfunctions and repairs, rebuilds and maintains power equipment, such as cranes, power shovels, scrapers, paving machines, motor graders, trench-digging machines, conveyors, bulldozers, dredges, pumps, compressors and pneumatic tools. This worker operates and inspects machines or equipment to diagnose defects, dismantles and reassembles equipment, using hoists and hand tools, examines parts for damage or excessive wear, using micrometers and gauges, replaces defective engines and subassemblies, such as transmissions, and tests overhauled equipment to insure operating efficiency. The mechanic welds broken parts and structural members, may direct workers engaged in cleaning parts and assisting with assembly and disassembly of equipment, and may repair, adjust and maintain mining machinery, such as stripping and loading shovels, drilling and cutting machines, and continuous mining machines.

**Qualifications and Experience:** High School Diploma and 2 years experience
23440  HEAVY EQUIPMENT OPERATOR
The Heavy Equipment Operator operates heavy equipment such as cranes, clamshells, power shovels, motor graders, heavy loaders, carryalls, bulldozers, rollers, scrapers, and large industrial tractors with pan or scraper attachments. Equipment is used to excavate, load, or move dirt, gravel, or other materials. Operator may read and interpret grade and slope stakes and simple plans, and may grease, adjust and make emergency repairs to equipment.
Qualifications and Experience: High School Diploma and 2 years experience

23460  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.
Qualifications and Experience: High School Diploma and 2 years experience

23465  LABORATORY/SHELTER MECHANIC
The Laboratory/Shelter Mechanic performs and, on occasion, will work alone performing removal, repair and installation to a variety of items pertaining to rebuilding and the repair of air transport galley laboratories, communications shelters, trailers and vans; this worker removes, repairs or replaces broken screws, bolts riv-nuts, pop rivets, brackets, skids, floors, and luge, etc. This person fills holes, dents and grooves on the various shelters with filler materials such as Scotch Weld, silastic, and plastic filler, fits positions and attaches patches, removes old and worn gaskets and replaces insuring that gasket is fitted properly to assure water tightness. On occasion, this mechanic removes, makes minor repairs, installs minor appliances, installs the various marking and identifications plates, works with higher-grade employees in providing estimates as to man-hours required to accomplish repairs. On familiar projects, this mechanic works with technical manuals and repair specifications and procedures, properly laying out and installing equipment racks, brackets, tool boards, holding devices, benches, mounts tables, etc. This mechanic removes repairs and/or replaces filters, blowers and heaters, visually locates defective operating hardware making repairs as required to items such as doors, handles, locks, hinges, fastening devices, etc., and checks all exterior seams for tightness and fit, making repairs as necessary. The Laboratory/Shelter Mechanic works with higher graded employees in performing structural repair, assists higher graded employee in the water test area performing high and low pressure tests and fording tests, performs pull test on shelter lifting eyes according to specifications, and inspects the shelter during these tests watching for any deficiencies. When deficiencies are noted, he/she makes on the spot repair or returns shelter to the line for necessary repair.
Qualifications and Experience: High School Diploma and 2 years experience

23470  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.

**Qualifications and Experience:** High School Diploma and 2 years experience

23510 LOCKSMITH
The Locksmith installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. This worker examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding, opens door locks by moving lock pick in cylinder or opens safe locks by listening to lock sounds or drilling. This worker makes new or duplicate keys, using key cutting machine, changes combination by inserting new or repaired tumblers into lock, and establishes keying systems for buildings.

**Qualifications and Experience:** High School Diploma and 2 years experience

23530 MACHINERY MAINTENANCE MECHANIC
The Machinery Maintenance Mechanic repairs machinery or mechanical equipment. Work involves most of the following: examining machines and mechanical equipment to diagnose source of trouble, dismantling or partly dismantling machines and performing repairs that mainly involve the use of hand tools in scraping and fitting parts. Responsibilities include replacing broken or defective parts with items obtained from stock and ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs. Duties also include preparing written specifications for major repairs or for the production of parts ordered from machine shops, reassembling machines and making all necessary adjustments for operation. In general, the work of a Machinery Maintenance Mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose primary duties involve setting up or adjusting machines.

**Qualifications and Experience:** High School Diploma and 2 years experience

23550 MACHINIST, MAINTENANCE
The Machinist, Maintenance produces replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves most of the following: interpreting written instructions and specifications, planning and laying out of work, using a variety of machinist's hand tools and precision measuring instruments, setting up and operating standard machine tools. This incumbent is responsible for the shaping of metal parts to close tolerances, making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals, selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice, usually acquired through a formal apprenticeship or equivalent training and experience.

**Qualifications and Experience:** High School Diploma and 2 years experience

23760 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.

Qualifications and Experience: High School Diploma and 2 years experience

23790 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.

Qualifications and Experience: High School Diploma and 2 years experience

23810 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.

Qualifications and Experience: High School Diploma and 2 years experience

23820 PNEUDRAULIC SYSTEMS MECHANIC
The Pneudraulic Systems Mechanic maintains, modifies, and repairs hydraulic and pneumatic systems and components that actuate mechanisms or produce, control, and regulate the flow of fluids (liquids and gases), tests for and isolates malfunctions in hydraulic and pneumatic systems or components, utilizing technical manuals and schematics, and modifies, repairs or disassembles and overhauls systems or components.

Qualifications and Experience: High School Diploma and 2 years experience

23850 RIGGER
A Rigger assembles rigging to lift and move equipment or material in manufacturing plant or shipyard, selects cables, ropes, pulleys, winches, blocks, and sheaves, according to weight and size of load to be moved, attaches pulley and blocks to fixed overhead structures, such as beams, ceilings, and gin pole
booms, with bolts and clamps, attaches load with grappling devices, such as loops, wires, ropes and chains, to crane hook, gives directions to Bridge-or-Gantry-Crane Operator or Hoisting Engineer engaged in hoisting and moving loads to insure safety of workers and material handled, using hand signals, loudspeaker, or telephone. The Rigger also sets up, braces, and rigs hoisting equipment, using hand tools and power wrenches, splices rope and wire cables to make or repair slings and tackle, and may direct workers engaged in hoisting machinery and equipment into ships.

**Qualifications and Experience:** High School Diploma and 2 years experience

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23870 SCALE MECHANIC
The Scale Mechanic installs, calibrates, and repairs weighing scales, using hand tools, power tools, and standard test weights, moves scale into position, using hoists and rollers, inserts shims between scale base and foundation to level scale, secures scale to foundation, using hand tools. This worker tests scale, using certified weights, and adjusts pivots, dial settings, and pendulums to ensure that weight indication meets legal specifications, turns setscrews to adjust spring scales disassembles scales and repairs or replaces worn or damaged parts, such as pivots and bearings. This worker straightens, cleans, and repaints structural parts of scale, and may install, adjust and repair electronically controlled scales.

**Qualifications and Experience:** High School Diploma and 2 years experience

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23890 SHEET-METAL WORKER, MAINTENANCE
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.

**Qualifications and Experience:** High School Diploma and 2 years experience

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23910 SMALL ENGINE MECHANIC
The Small Engine Mechanic repairs fractional-horsepower gasoline engines used to power lawnmowers, garden tractors, and similar machines, using hand tools, locates causes of trouble, dismantles engines, using hand tools, and examines parts for defects, replaces or repairs parts, such as rings and bearings, cleans and adjusts carburetor and magneto, starts repaired engines and listens to sounds to test performance.

**Qualifications and Experience:** High School Diploma and 2 years experience

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23960 WELDER, COMBINATION, 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.

**Note:** Employees welding aircraft and ground support equipment should be classified as an Aerospace Structural Welder.
Qualifications and Experience: High School Diploma and 2 years experience

25000 – Plant and System Operations Occupations
This category includes occupations concerned with operating water and sewage treatment plants, gas plants, power plants, stationary engines and related equipment, chemical plants, and petroleum plants. The occupations are concerned with minute-by-minute operation and not with marketing, supplies, personnel, and other non-operating activities.

25040 SEWAGE PLANT OPERATOR
(Wastewater Treatment Plant Operator)
This incumbent operates sewage treatment, sludge processing, and disposal equipment in wastewater (sewage) treatment plant to control flow and processing of sewage, monitors control panels and adjusts valves and gates manually or by remote control to regulate flow of sewage, observes variations in operating conditions and interprets meter and gauge readings, and tests results to determine load requirements. This worker starts and stops pumps, engines, and generators to control flow of raw sewage through filtering, settling, aeration, and sludge digestion processes, maintains log of operations and records meter and gas readings, gives directions to wastewater treatment plant attendants and sewage-disposal workers in performing routine operations and maintenance, and may collect sewage sample, using dipper or bottle and conduct laboratory tests, using testing equipment, such as colorimeter. This person may operate and maintain power-generating equipment to provide steam and electricity for plant.
Qualifications and Experience: High School Diploma and 2 years experience

25210 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.
Qualifications and Experience: High School Diploma and 2 years experience

30000 – Technical Occupations
This category includes occupations concerned with providing technical assistance to engineers and scientists in both laboratory and production activities as well as occupations concerned with independently operating and servicing technical equipment and systems. Characteristic of occupations in this category is the requirements for a knowledge of scientific, engineering, and mathematical theories, principles and techniques that are less than full professional knowledge but which, nevertheless, enables the technician to understand how and why a specific device or system operates. The technician solves practical problems encountered in fields of specialization, such as those concerned with development of electrical and electronic circuits, and establishment of testing methods for electrical,
electronic, electromechanical, and hydro-mechanical devices and mechanisms. Work involves the application of engineering principles in solving design, development, and modification problems of parts or assemblies for products or systems, and application of natural and physical science principles to basic or applied research problems in fields, such as metallurgy, chemistry, and physics. The technician may perform technical procedures and related activities independently. Workers with the title of Technician who are concerned primarily with maintenance and repair are classified with Mechanics and Maintenance and Repair Occupations.

30040 CIVIL ENGINEERING TECHNICIAN
This incumbent provides technical assistance to professional Cartographers in connection with the construction or revision of maps and charts. Work involves the solution of technical problems that require primarily the application of a practical knowledge of the methods and techniques by which maps and charts are constructed. The Cartographic Technician performs any, or a combination of duties such as: collecting, evaluating and selecting source materials, compiling information from source materials and developing a plan for using the information in accordance with product specifications. Duties could involve obtaining reliable measurements of earth's surface features such as elevations and distances from photographs by using photogrammetric techniques and equipment, using drafting tools and automated equipment to make maps and charts, assembling aerial photographs into mosaics, and reviewing and editing map and chart manuscripts.

Qualifications and Experience: High School Diploma and 2 years experience

30061 DRAFTER/CAD OPERATOR I
This operator prepares drawings or computer models of simple, easily visualized structures, systems, parts or equipment from sketches or marked-up prints, selects appropriate templates/computer programs or uses a compass and other equipment needed to complete assignments. Drawings and models fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy. Typical assignments include:

a. Revisions to the original drawings of a plumbing system by increasing pipe diameters.
b. Drawing from sketches, the building floor plans, determining size, spacing and arrangement of freehand lettering according to scale.
c. Drawing simple land profiles from predetermined structural dimensions and reduced survey notes.
d. Tracing river basin maps and enters symbols to denote stream sampling locations, municipal and industrial waste discharges, and water supplies.
e. Preparing a computer model of a room, building, structure from data, prints, photos.

Qualifications and Experience: High School Diploma and 2 years experience

30062 DRAFTER/CAD OPERATOR II
This operator prepares various drawings computer models of such units as construction projects or parts and assemblies, including various views, sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting and CAD techniques and a working knowledge of the terms and procedures of the occupation. The Draft/CAD Operator II makes arithmetic computations using standard formulas. Familiar or recurring work is assigned in general terms. Unfamiliar assignments include information on methods, procedures, sources of information, and precedents to follow. Simple revisions to existing drawings or computer models may be assigned with a verbal explanation of the desired results. More complex revisions are produced from sketches, computer models or specifications that clearly depict the desired product.

Typical assignments include:
a. Preparing several views of a simple gear system from a layout and manual references and obtaining dimensions and tolerances from manuals and by measuring the layout.

b. Preparing and revising detail and design drawings for such projects as the construction and installation of electrical or electronic equipment, plant wiring, and the manufacture and assembly of printed circuit boards. Drawings typically include details of mountings, frames, guards, or other accessories; conduit layouts; or wiring diagrams indicating transformer sizes, conduit locations and mountings.

c. Drawing base and elevation views, sections, and details of new bridges or other structures, revising complete sets of roadway drawings for highway construction projects, or preparing block maps, indicating water and sewage line locations.

**Qualifications and Experience:** High School Diploma and 4 years experience

30063 DRAFTER/CAD OPERATOR III

This operator prepares complete sets of complex drawings or computer models that include multiple views, detail drawings, and assembly drawings. Drawings or models include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to draw land contours or to compute weights, center of gravity, load capacities, dimensions, quantities of material, etc. The Draft/CAD Operator works from sketches, computer models, and verbal information supplied by an engineer, architect, or designer to determine the most appropriate views, detail drawings, and supplementary information needed to complete assignments. This operator selects required information from computer programs, and internet sites, precedents, manufacturers' catalogs, and technical guides. This operator independently resolves most of the problems encountered. Supervisor or design originator may suggest methods of approach or provide advice on unusually difficult problems. Typical assignments include:

a. Prepares complete sets of drawings of test equipment to be manufactured from layouts, models, or sketches. Several cross-sectional and subassembly drawings are required. From information supplied by the design originator and from technical handbooks and manuals, this operator describes dimensions, tolerances, fits, fabrication techniques, and standard parts to use in manufacturing the equipment.

b. From electronic schematics, information as to maximum size, and manuals giving dimensions of standard parts, determines the arrangement and prepares drawing of printed circuit boards.

c. From precedents, drafting standards, and established practices, prepares final construction drawings for floodgates, navigation locks, dams, bridges, culverts, levees, channel excavations, dikes and berms, prepares boring profiles, typical cross-sections, and land profiles; and delineates related topographical details as required.

d. Prepares final drawings for street paving and widening or for water and sewer lines having complex trunk lines; reduces field notes and calculates true grades. From engineering designs, lays out plan, profile and detail appurtenances required; and notifies supervisor of conflicting details in design.

Excludes drafter performing work of similar difficulty to that described at this level but who provides support for a variety of organizations that have widely differing functions or requirements.

**Qualifications and Experience:** High School Diploma and 6 years experience

30064 DRAFTER/CAD OPERATOR IV

This operator works closely with design originators, preparing drawings or computer models of unusual, complex, or original designs that require a high degree of precision, performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. This incumbent assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawing produced, exercises independent judgment in selecting and interpreting data based on knowledge of the design intent. Although working primarily as a drafter, this worker may occasionally interpret general designs prepared by others to complete minor details, may provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.
Qualifications and Experience: High School Diploma and 8 years experience

30081 ENGINEERING TECHNICIAN I
This technician performs simple routine tasks under close supervision or from detailed procedures. Work is checked in progress or on completion. This person performs one or a combination of such typical duties as:
a. Assembling or installing equipment or parts requiring simple wiring, soldering, or connecting.
b. Performing simple or routine tasks or tests such as tensile or hardness tests; operating and adjusting simple test equipment; records test data.
c. Gathering and maintaining specified records of engineering data such as tests, drawings, etc.; performing computations by substituting numbers in specified formulas; plotting data and draws simple curves and graphs.

Qualifications and Experience: High School Diploma and 2 years experience

30082 ENGINEERING TECHNICIAN II
The Engineering Technician II performs standardized or prescribed assignments involving a sequence of related operations, follows standard work methods on recurring assignments but receives explicit instructions on unfamiliar assignments. Technical adequacy of routine work is reviewed on completion; non-routine work may be reviewed in progress. This technician performs at this level, one or a combination of such typical duties as:
a. Following specific instructions, assembles or constructs simple or standard equipment or parts, servicing or repairing simple instruments or equipment;
b. Conducting a variety of tests using established methods, preparing test specimens, adjusting and operating equipment, recording test data, and pointing out deviations resulting from equipment malfunction or observational errors;
c. Extracting engineering data from various prescribed but non-standardized sources, processing the data following well-defined methods including elementary algebra and geometry, and presenting the data in prescribed form.

Qualifications and Experience: High School Diploma and 4 years experience

30083 ENGINEERING TECHNICIAN III
The Engineering Technician III performs assignments that are not completely standardized or prescribed, selects or adapts standard procedures or equipment, using fully applicable precedents, receives initial instructions, equipment requirements, and advice from supervisor or engineer as needed, performs recurring work independently. Work is reviewed for technical adequacy or conformity with instructions. This technician performs at this level one or a combination of such typical duties as:
a. Constructing components, subunits, or simple models or adapts standard equipment; may troubleshoot and correct malfunctions;
b. Following specific layout and scientific diagrams to construct and package simple devices and subunits of equipment.
c. Conducting various tests or experiments which may require minor modifications in test setups or procedures as well as subjective judgments in measurement, selecting, preparing, and operating standard test equipment and records test data;
d. Extracting and compiling a variety of engineering data from field notes, manuals, lab reports, etc., processing data, identifying errors or inconsistencies, selecting methods of data presentation.
e. Assisting in design modification by compiling data related to design, specifications, and materials that are pertinent to specific items of equipment or component parts; developing information concerning previous operational failures and modifications, and using judgment and initiative to recognize inconsistencies or gaps in data and seek sources to clarify information.
Qualifications and Experience: High School Diploma and 6 years experience

30084  ENGINEERING TECHNICIAN IV
The Engineering Technician III performs assignments that are not completely standardized or prescribed, selects or adapts standard procedures or equipment, using fully applicable precedents, receives initial instructions, equipment requirements, and advice from supervisor or engineer as needed, performs recurring work independently. Work is reviewed for technical adequacy or conformity with instructions. This technician performs at this level one or a combination of such typical duties as:

a. Constructing components, subunits, or simple models or adapts standard equipment; may troubleshoot and correct malfunctions;
b. Following specific layout and scientific diagrams to construct and package simple devices and subunits of equipment.
c. Conducting various tests or experiments which may require minor modifications in test setups or procedures as well as subjective judgments in measurement, selecting, preparing, and operating standard test equipment and records test data;
d. Extracting and compiling a variety of engineering data from field notes, manuals, lab reports, etc., processing data, identifying errors or inconsistencies, selecting methods of data presentation.
e. Assisting in design modification by compiling data related to design, specifications, and materials that are pertinent to specific items of equipment or component parts; developing information concerning previous operational failures and modifications, and using judgment and initiative to recognize inconsistencies or gaps in data and seek sources to clarify information.

Qualifications and Experience: High School Diploma and 8 years experience

30085  ENGINEERING TECHNICIAN V
This technician performs non-routine and complex assignments involving responsibility for planning and conducting a complete project of relatively limited scope or a portion of a larger and more diverse project, selects and adapts plans, techniques, designs, or layouts, contacts personnel in related activities to resolve problems and coordinate the work, reviews, analyzes, and integrates the technical work of others. Supervisor or professional engineer outlines objectives, requirements, and design approaches. Completed work is reviewed for technical adequacy and satisfaction of requirements. This incumbent may train and be assisted by lower level technicians, and performs one or a combination of the following:

a. Designs, develops, and constructs major units, devices, or equipment; conducts tests or experiments; analyzes results and redesigns or modifies equipment to improve performance; and reports results.
b. From general guidelines and specifications (e.g., size or weight requirements), develops designs for equipment without critical performance requirements that are difficult to satisfy such as engine parts, research instruments, or special purpose circuitry. Analyzes technical data to determine applicability to design problems; selects from several possible design layouts; calculates design data; and prepares layouts, detailed specifications, parts lists, estimates, procedures, etc. May check and analyze drawings or equipment to determine adequacy of drawings and design.
c. Plans or assists in planning tests to evaluate equipment performance. Determines test requirements, equipment modification, and test procedures; conducts tests using all types of instruments; analyzes and evaluates test results, and prepares reports on findings and recommendations.

Qualifications and Experience: High School Diploma and 10 years experience

30086  ENGINEERING TECHNICIAN 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.

**Qualifications and Experience:** High School Diploma and 12 years experience

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30090 ENVIRONMENTAL TECHNICIAN
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.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99000 MISCELLANEOUS OCCUPATIONS
This category includes various occupations not classified in any other category.

99410 PEST CONTROLLER (Exterminator)
The Pest Controller sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas, fumigates rooms and buildings using toxic gases, sprays chemical
solutions or dusts powders in rooms and work areas, places poisonous paste or bait and mechanical traps where pests are present; may clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating; and may be required to hold State license.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99710  **RECYCLING LABORER**
The Recycling Laborer sorts through collected trash and debris for recyclable materials and separates items into established categories such as aluminum, ferrous metals, glass, high-grade white paper, and corrugated paper. This worker discards contaminants and other items that cannot be recycled.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99711  **RECYCLING SPECIALIST**
The Recycling Specialist conducts variety of tests such as magnetic checks and tests to determine solubility of glues and similar contaminants to determine type and quality of recyclable materials, stores recyclable materials for maximum convenience of handling preparatory to shipment and for protection from deterioration, operates forklift to transport and stock loaded pallets in warehouse, semi-tractor trailers and railroad boxcars; prepares receipts and reports concerning materials collected and chipped, may assist in operating large capacity industrial machinery such as paper shredder, magnetic can separator, glass crusher, bale and compactor, may assist in performing preventive maintenance, minor repairs and lubrication of machinery, and may disassemble scrap material using hand tools.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99730  **REFUSE COLLECTOR**
The Refuse Collector picks up garbage, trash, or refuse from homes, businesses and other locations and deposits it in a truck.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99831  **SURVEYING AIDE**
The Surveying Aide performs any of following duties to assist in surveying land: holds level or stadia rod at designated points to assist in determining elevations and laying out stakes for map making, construction, mining, land, and other surveys, calls out reading or writes station number and reading in notebook marks points of measurement with elevation, station number, or other identifying mark, and measures distance between survey points, using steel or cloth tape or surveyor's chain. This worker marks measuring point with keel (marking crayon), paint sticks, scratches, tacks, or stakes, places stakes at designated points and drives them into ground at specified elevation using hammer or hatchet, and cuts and clears brush and trees from line of survey, using brush hook, knife, ax, or other cutting tools.

**Qualifications and Experience:** High School Diploma and 2 years experience

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99832  **SURVEYING TECHNICIAN** (Instrument Person; Surveyor Assistant, Instruments)
The Surveying Technician obtains data pertaining to angles, elevations, points, and contours used for map making, mining, or other purposes, using alidade, level, transit, plane table, theodolite, electronic distance measuring equipment, and other surveying instruments, compiles notes, sketches, and records of data obtained and work performed, and directs work of subordinate members of survey team.

**Qualifications and Experience:** High School Diploma and 2 years experience
Professional Services Labor Categories

Subject Matter Expert (SME):

Duties and Responsibilities:
Performs very complex tasks with minimal supervision. May be required to make recommendations on further project developments with specific system enhancements. Expert knowledge of specific tasks, processes, and functions, to meet organizations best practice standards. Expert in utilizing new methodologies for solving problems and ensuring that systems are in compliance with organizational requirements and client needs. Expert in developing scenarios for analyzing requirements and solutions. Ensures that the client is maximizing the impacts and potential of new systems.

Qualifications and Experience:
- **Level IV**
  - Minimum a Bachelors Degree and fourteen (14) years related experience
- **Level III**
  - Minimum a Bachelors Degree and twelve (12) years related experience
- **Level II**
  - Minimum a Bachelors Degree and ten (10) years related experience
- **Level I**
  - Minimum a Bachelors Degree and eight (8) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.

Program Manager:

Duties and Responsibilities:
Allocate and control resources as they relate to individual programs as well as your department’s budget as a whole. Coordinates with other departments to ensure all aspects of each project are compatible. Ensures that project/department milestones/goals are met and adhering to approved budgets. Ensures adherence to master plans and schedules, develops solutions to program problems, and directs work of incumbents assigned to program from various departments. Ensures projects are completed on time and within budget. Acts as advisor to program team regarding projects, tasks, and operations. Experience with process improvement and inventory control. A Project Management Institute (PMI) Certification a plus.

Qualifications and Experience:
- **Level III**
  - Minimum a Bachelors Degree and six (6) years related experience
- **Level II**
  - Minimum a Bachelors Degree and four (4) years related experience
- **Level I**
  - Minimum a Bachelors Degree and two (2) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.
Project Manager:

Duties and Responsibilities:
Manages and oversees all aspects of a project to ensure it is completed on-time and within budget. Has overall responsibility for managing scope, cost, schedule, internal staffing and vendors, and deliverables. Prepares reports regarding status of project. Contributes to moderately complex aspects of a project. Work is generally independent and collaborative in nature. A Program Management Institute (PMI) Certification a plus.

Qualifications and Experience:

Level III
Minimum a Bachelors Degree and six (6) years related experience

Level II
Minimum a Bachelors Degree and four (4) years related experience

Level I
Minimum a Bachelors Degree and two (2) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.

Engineer:

Duties and Responsibilities:
Provides expert consultation in one or more areas for design, development and implementation of technical products and systems. Resolves highly complex technical issues and conducts advanced research. Recommends alterations to development and design to improve quality of products and/or procedures. Has extensive engineering knowledge and is considered an expert in one or more engineering specialties. Works on advanced, complex technical projects or business issues requiring state of the art technical or industry knowledge. Works autonomously. Goals are generally communicated in solution or project goal terms. May provide a leadership role for the work group through knowledge in the area of specialization.

Qualifications and Experience:

Level V
Minimum a Bachelors Degree and 10 years related experience

Level IV
Minimum a Bachelors Degree and eight (8) years related experience

Level III
Minimum a Bachelors Degree and six (6) years related experience

Level II
Minimum a Bachelors Degree and four (4) years related experience

Level I
Minimum a Bachelors Degree two (2) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.

Contracts Administrator:

Duties and Responsibilities:
Draft, evaluate, negotiate and execute contracts. Establish and maintain supplier relationships by serving as a single point of contact for contractual matters. Manage record keeping for all contract-related correspondence and documentation. Provide contract-related issue resolution,
Contracts Manager:

Duties and Responsibilities:
Draft, evaluate, negotiate and execute contracts and subcontracts. Establish and maintain supplier relationships by serving as a single point of contact for contract/subcontract matters. Manage record keeping for all contract/subcontract related correspondence and documentation. Provide contract/subcontract related issue resolution, both internally and externally. Monitor and complete contract/subcontract close-out, extension or renewal, as appropriate. Demonstrate negotiation and problem-solving skills. Strong skills in Microsoft Office software, including Word, Excel, and PowerPoint. Ability to meet project objectives within designated constraints.

Qualifications and Experience:
Minimum a Bachelor's degree and four (4) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.
Quality Control Manager:

Duties and Responsibilities:
Inspect raw materials to ensure consistency and integrity. Maintain, test and troubleshoot all instrumentation devices. Attempt repairs on broken or damaged products to determine the best way to scale those repairs. Test a certain percentage of all products based on industry standards. Report problems or concerns to senior management immediately. Create an effective, efficient testing protocol. Ability to translate skills and knowledge to others.

Qualifications and Experience:
- **Level II**
  - Minimum a Bachelors Degree and four (4) years related experience
- **Level I**
  - Minimum a Bachelors Degree and two (2) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.

Safety Manager:

Duties and Responsibilities:
Visit job sites to conduct safety audits on personnel, equipment and materials. Evaluate, assess and alter safety procedures and policies for the benefit of employees and clients. Research and implement new materials handling processes. Analyze accident reports and evaluate injury case studies based on available facts. Prepare and conduct safety training sessions. Ensure compliance with regulatory bodies and standards. Research environmental regulations and policies and institute changes to ensure compliance. Track incident metrics and apply findings. Oversee the applications for and receipt of necessary permits. Lead injury and incident inquiries and evaluations.

Qualifications and Experience:
- **Level III**
  - Minimum a Bachelors Degree and six (6) years related experience
- **Level II**
  - Minimum a Bachelors Degree and four (4) years related experience
- **Level I**
  - Minimum a Bachelors Degree and two (2) years related experience

Substitutions: Certifications and Licensing may be substituted for relevant years of experience. Relevant years of experience may be substituted for a Degree.
### GSA Approved Labor Rates

#### Wage Determination Labor Categories

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### Engineering Technician Labor Categories

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### Professional Services Labor Categories

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## Service Contract Labor Standards Matrix

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<th>SCLS Equivalent Code - Title</th>
<th>WD Number</th>
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<td>Material Expeditor</td>
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<tr>
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The Service Contract Labor Standards, formerly the Service Contract Act (SCA), apply to this contract and it includes SCLS applicable labor categories. Labor categories and fixed price services marked with a (***) in this pricelist are based on the U.S. Department of Labor Wage Determination Number(s) identified in the SCLS/SCA matrix. The prices awarded are in line with the geographic scope of the contract (i.e. nationwide).