

HVAC TECHNICIAN**DEFINITION**

Under general supervision, performs the full range of skilled journey-level heating, ventilating, air conditioning and refrigeration work; assists or coordinates with other skilled trades or serves as skilled worker on larger projects; and performs other duties as assigned.

The typical duties and employment standards are representative of positions within this classification. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential duties of the specific position.

TYPICAL DUTIES

Installs, inspects, calibrates, diagnoses, troubleshoots, services, operates, and repairs a variety of heating, ventilating, air conditioning, refrigeration, kitchen and solar equipment, such as pumps, valves, condensing units, evaporators, copper tubing, wiring, cooling towers, compressors, motors, chillers, boilers, ovens, freezers, ranges, and steam cookers.

Installs, inspects, calibrates, diagnoses, troubleshoots, services, operates, and repairs a variety manual, electrical, electronic, pneumatic, building automation and direct digital control systems, including sequencers, controllers, economizers, sensors, thermostats, actuators, dampers, transducers, pumps, starters, thermometers, switches, valves, interlocks, and other parts and systems. Tests and balances air conditioning ducts, calculating areas, velocities and air volumes for proper airflow design specifications; drains, flushes and checks chemicals on boilers.

Works from sketches, plans, drawings, blueprints, specifications and electrical schematics. Plans and estimates material and labor costs; locates and acquires parts and materials for repair or maintenance of heating, ventilating, air conditioning and refrigeration equipment and systems; maintains service, repair and other records as required. Operates a variety of testing equipment, brazing torches, drills and other power and hand tools; operates a District vehicle to conduct work; maintains shop including cleaning and organizing tools and shop equipment. Confers with contract vendors, engineers and others to discuss plans and resolve issues; contacts school and site personnel regarding maintenance or repair needs; occasionally provides advice to semi-skilled and unskilled maintenance workers; performs other duties as assigned.

DISTINGUISHING CHARACTERISTICS

The **HVAC Technician** classification performs the full range of skilled journey-level heating, ventilating, air conditioning and refrigeration work. The **Maintenance Worker I** independently or as a member of a work crew performs a variety of moderately difficult semi-skilled maintenance and repair tasks of District facilities and equipment. The **Maintenance Worker II** frequently assists and performs skilled maintenance, repair and construction tasks in one or more of the trades areas, under close supervision of a journey-level trades person and performs moderate to complex semi-skilled tasks independently or as a member of a work crew.

EMPLOYMENT STANDARDS

Knowledge of: Standard methods, codes, materials, practices, tools, and equipment used in the heating, ventilating, air conditioning and refrigeration trade; basic tools and procedures used in other/related trades; safety practices necessary around tools and materials and for performing work with heavy physical requirements.

Ability to: Demonstrate proficiency in performing skilled mechanical, electrical, plumbing, and electronic installation, inspection, calibration, diagnoses, repair and maintenance of heating, ventilating, air conditioning and refrigeration equipment and systems; understand the principles of the heating, ventilating, air conditioning and refrigeration trade at a level sufficient to identify problems and perform tasks safely and completely; use required hand and power tools and equipment; operate trucks; read and work from sketches, plans, drawings, specifications and blueprints; work cooperatively with co-workers, site and District staff, students and others; communicate clearly and effectively; understand and follow oral and written directions; maintain records; schedule and perform work to meet established time lines; work independently with little direction; learn and perform duties of other trades if assigned; serve as assistant or lead worker on larger projects.

Essential Physical Activities and Work Environment: Sufficient stamina to stand, walk, sit, climb, kneel, crawl, reach, twist, crouch, squat, balance and bend on a daily basis for eight to ten hours a day; strength to regularly transport objects weighing up to 75 pounds and occasionally up to 100 pounds (e.g. pumps, compressors, etc.); mobility to climb and descend ladders; subject to working in high, precarious places; sufficient finger dexterity to grasp, push, and pull hand and power tools and heavy equipment and objects; sufficient stamina to perform heavy manual labor on a daily basis; sufficient dexterity to work in confined areas; sufficient hearing and speaking to give and receive instructions; and vision sufficient to read fine print.

Work is subject to exposure to electric shock, poor ventilation, chemicals, fumes, solvents, gases, dust, dirt, odors, noise and vibrations. Work is conducted occasionally in adverse weather conditions, and is performed in both indoor and outdoor environments. Work is subject to traveling to District sites.

Typical Background: Any combination of training and experience that demonstrates the knowledge and abilities to perform the typical duties. A usual way to obtain the knowledge and abilities would be graduation from high school **and** one of the following that leads to skilled or journey-level equivalency: At least four years of progressively responsible work experience in the heating, ventilation, air conditioning and refrigeration trade, or trade schooling and experience, or a formal apprenticeship.

Licenses and/or Certificates: Possession of a valid Class C California driver's license. Must meet District vehicle and liability insurance requirements. May be required to obtain job-related certificates after appointment.

Qualifications: In order to be considered qualified for a vacancy in this classification, a candidate must possess the required background and successfully demonstrate such background, knowledge, skills and abilities through an examination process.