

### **HVAC SYSTEMS TECHNICIAN III**

**DISTINGUISHING FEATURES OF THE CLASS:** The incumbent in this position performs skilled work in the operation of heating, ventilating and air conditioning (HVAC) equipment at County facilities. The position requires expertise in the operation and repair of large complex systems including, but not limited to, boilers, chillers, cooling towers, air handlers, pumps and associated control equipment. The work is performed under general supervision with a wide leeway allowed for the use of independent judgement in carrying out the details of the work. Often works independently. Oversees the work of subordinate staff. Does related work as required.

#### **TYPICAL WORK ACTIVITIES:**

Troubleshoots HVAC equipment at designated County facilities to maintain maximum building comfort levels at predetermined limits;

Spot checks County facilities, to maintain building comfort levels, meters and gauges to insure system operations are in accordance with specified instructions and/or parameters;

Communicates with building occupants regarding temperature comfort levels;

Adjusts and regulates equipment to maintain adequate building comfort levels;

Inspects HVAC equipment periodically and monitors it to insure efficient operation and makes adjustments as required;

Repairs and calibrates pneumatic and electronic temperature control systems utilizing latest state of the art methods, procedures and equipment;

Maintains County HVAC equipment in line with the County energy conservation policy following established procedures, guidelines and standards;

Ensures auxiliary equipment such as pumps, compressors, valves, regulators and controllers are at optimum operating efficiency;

Ensures that preventative maintenance schedules are carried out properly and effectively;

Installs, repairs and maintains HVAC equipment and other building systems equipment;

May inspect work performed by outside contractors to insure conformance to project plans and specifications while reporting on same to Stationary Engineer;

May prepare estimates of materials and parts needed;

Makes repairs to sheetmetal ductwork and fabricates sheetmetal assemblies;

Fabricates miscellaneous items of equipment not commercially available or when so required to meet special situations;

Maintains written records and logs as required;

May direct the work of others and review while in progress and upon completion;

May be required to update skill levels through additional education/training relating to new developments in the HVAC field.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Thorough knowledge of the principles and practices involved with the operation of large complex HVAC systems, auxiliary equipment and controls;

Thorough knowledge of construction and safe efficient operation of large complex HVAC systems, auxiliary equipment and controls;

Good knowledge of the methods, materials and test equipment used in the operation and maintenance of large complex HVAC systems, auxiliary equipment and Direct Digital Controls (DDC);

Good knowledge of energy management, system integration and programming;

Good knowledge of the fundamentals of cooling tower applications as well as water treatment;

Working knowledge of energy conservation including heat load calculations and building envelopes;

Working knowledge of current environmental and OSHA regulations pertaining to HVAC operations;

Skill in reading and interpreting technical manuals sketches, drawings and blueprints;

Skill in the utilization of tools and test equipment of the mechanical, plumbing and refrigeration trade;

Ability to solve HVAC problems diagnostically;

Ability to use diplomacy, good judgement and tact in effectively communicating with people, building occupants, the general public, County employees and contractors;

Ability to climb, stoop and do moderately heavy lifting;

Ability to layout work;

Mechanical aptitude;

Physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Graduation from high school or possession of an equivalency diploma and four years of experience operating and maintaining complex HVAC systems, auxiliary equipment and controls in a facility.

**NOTE:** Education and/or training at a regionally accredited or New York State registered college, university or technical school in heating, ventilation, air-conditioning or closely related field may be substituted for experience on a year-for-year basis.

SPECIAL REQUIREMENTS:

- 1) Certification as a Type I and II Refrigerant Transition and Recovery Technician as required by the Code of Federal regulations, Part 82, Subpart F, and approved by the Environmental Protection Agency within 1 year of appointment.
- 2) Possession of the appropriate level Motor Vehicle Operator's License at time of appointment.

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COMPETITIVE