



## Maintenance Tech III- HVAC

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We are seeking a **Maintenance Tech III** to perform the duties peculiar to, and normally required of the trade of HVAC-R Mechanic, following recognized procedures and techniques for such work. The Maintenance Tech III will install, inspect, operate and repair heating, ventilating and cooling equipment and refrigeration units using necessary tools and testing equipment.

### Principal Duties and Responsibilities

- Inspects and operates HVAC and refrigeration units and machinery to determine that all are functioning properly
- Conducts building envelope evaluations, ventilation assessments, and other measurements as required for proper building environmental management
- Reads thermometers and gauges, and records readings
- Assists with the design and installation of automated building management/direct digital control systems
- Is responsible for ensuring proper environmental conditions through the daily operation of HVAC and automated building management systems
- Monitors computer software as required
- Maintains and repairs systems
- Tests efficiency of system with instruments and makes adjustment to controls
- Lubricates compressors, motors and other moving parts
- Tests systems before placing them in operation
- Tests joints and connections according to type of refrigerant used
- Repairs leaks and retests
- Reads schematics, blueprints, and diagrams
- Drains system as required per manufacturer's instructions
- Operates system for several hours, making adjustments to thermostats and valves to insure proper control of freezing action
- Performs preventative maintenance to units as required per manufacturer's instructions
- Changes filters, belts and other components per manufacturer's specifications
- Maintains logs and records as required
- Perform related duties as assigned

### Qualifications:

- Must possess valid journeyman's license from recognized agency, e.g. State of Michigan, City of Detroit, UA Local 636.
- Graduation from an accredited trade or vocational school in an HVAC-R related field is required.
- A minimum of seven years of commercial and/or industrial HVAC-R service is required.
- Must be able to diagnose and repair or replace all components of major, state-of-the-art HVAC-R systems including, but not limited to: compressors, coils, motors, control mechanisms, solenoids, switches, VAV boxes, duct heaters, valves, burners, heat exchangers, chillers, air handlers, furnaces, boilers, split systems, evaporators, expansion tanks, air curtains, humidifiers, pumps, blowers, fans, thermostats, condensers, vacuum pumps, freezers and refrigerators .

### Physical Requirements

Lifts, carries, pushes or pulls a variety of tools, equipment and materials. Climbs, balances, stoops, kneels and crouches to gain access to pipes, wiring and equipment. Handles a variety of hand and power tools. Near-visual acuity needed to read equipment diagrams and inspect parts. Depth perception, field of vision, and color vision needed in fitting and installing parts. Works inside and outdoors. Exposed to heat, wet, and cold conditions. Exposed to noise and vibration from operating machinery.

### Application Procedure:

The Detroit Zoological Society is an equal opportunity employer and is committed to diversity in our workforce. We maintain a drug free workplace and perform pre-employment substance abuse screening for external candidates.

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