



CLASSIFICATION SERIES:

HVAC Technician Occupation

BARGAINING UNIT:

ACE

HVAC/R Technician 2

SERIES PURPOSE: The purpose of the HVAC/R Technician occupation is to ensure the proper regulation and maintenance of HVAC/R systems across various properties as well as maintain energy efficiency and environmental standards by ensuring that HVAC/R systems are properly maintained and operated.

CLASS CONCEPT: The class works under general supervision and requires extensive knowledge of Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technology and its processes and blueprint reading in order to install, maintain, and repair heating, ventilation, air conditioning, and refrigeration systems. Diagnoses mechanical and electrical faults, adjusts and cleans systems and performs warranty services. Troubleshoots complex HVAC/R systems.

JOB DUTIES: Incumbents may perform some or all of these duties or other job-related duties as assigned.

Performs installation, preventative maintenance, troubleshooting and repair of various air-conditioning equipment including but not limited to, residential split AC and heat pumps, refrigeration compressors, mini-splits, packaged terminal air conditioners (PTAC), air-cooled chillers, water cooled chillers, cooling towers, chilled water pumps, walk-in and reach-in coolers and freezers, packaged rooftop air-handlers, and compressed air-driers. Frequently, charges, recovers, and properly disposes of refrigerants.

Performs installation, preventative maintenance, troubleshooting and repair of various heating appliances including but not limited to natural gas furnaces, auxiliary steam boilers, auxiliary hydronic boilers, radiant terminal units such as radiators, unit-ventilators, radiant panels, electric resistance heaters, air-curtains, steam-to-hot water heat exchangers, steam traps, condensate return packages, steam regulators, and associated accessories.

Performs installation, preventative maintenance, troubleshooting and repair of campus ventilation systems and equipment including but not limited to air handling equipment, blowers, exhaust fans, dampers, VAV boxes and interconnecting duct work, diffusers, registers and grilles.

Frequently installs, modifies, or corrects issues with refrigeration, heating, and chilled water piping systems constructed of various materials including but not limited to copper, malleable iron, and PVC.

Operates the campus Building Automation System (BAS) to troubleshoot and verify operation of campus HVAC/R equipment. Conducts installation, maintenance, calibration, and repair of campus pneumatic controls systems including but not limited to air-compressors, pneumatic thermostats, vav volume

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controllers, receiver controllers, electro-pneumatic transducers, and other associated accessories. Performs electrical troubleshooting and repair of unitary controls on all responsible equipment.

Assists trade personnel and/or contractors in maintenance repairs and/or performs building maintenance and trade tasks; troubleshoots and maintains all equipment; performs maintenance and repairs on equipment as needed; orders and/or picks up parts; obtains price quotes and/or bids; maintains required reports and records; maintains equipment; operates snow and ice removal and grass cutting equipment; attends required meetings and training.

Other Functions and Responsibilities: Assists with training new hires.

Performs other duties as assigned and/or required that are within the level of responsibility for this classification at the discretion of the supervisor.

Equipment Operated: Service truck; hand tools; oxy-acetylene torch; refrigeration tools; diagnostic tools; and related maintenance equipment and tools.

Work Schedule: Monday through Friday 7:30 a.m. to 4:00 p.m.

Unusual Working Conditions: May work other than first shift; exposed to dirt, high and low temperatures, and dangerous equipment.

Primary Location: Youngstown

Supervision Exercised: May exercise supervision over student employees.

Reports to: Associate Director

Qualifications and Competencies

Required Certifications, Training, and/or Licensures: EPA Section 608 UNIVERSAL Certification

Sponsorship and/or Work Authorization Status: This position is not eligible for sponsorship.

Knowledge, Skills, and Abilities:

Knowledge of: air conditioning, refrigeration and heating technology; blueprint reading; local, state, and federal regulations, policies, and procedures.

Skill in: heating, ventilation, air conditioning, and refrigeration maintenance, repair, and installation; hand and power tool operation; minor welding operation*.

Ability to: recognize unusual or threatening conditions and take appropriate action; interpret a variety of instructions in written, oral, picture, or schedule form.

(*) Developed after employment.

Minimum Qualifications: High School Diploma or GED; EPA Section 608 UNIVERSAL Certification; and at least five years of verifiable experience in the installation or service of commercial HVAC/R systems.

Preferred Qualifications: Ten or more years of verifiable experience in the installation and/or service of commercial HVAC/R systems. Verifiable experience in the maintenance, repair, and/or operation of large
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tonnage chillers. (>1000 tons). Verifiable experience in the maintenance, repair, and/or operation of steam boilers and distribution systems.

Physical Requirements: In accordance with the U.S. Department of Labor physical demands strength ratings, this position will perform very heavy work.

Very Heavy: work involves exerting 100 pounds of force occasionally, or 50 pounds of force constantly to move objects.