

MORGAN STATE UNIVERSITY

JOB SPECIFICATON



HVAC MECHANIC II

Class Code: 6970
Pay Range: 13

FLSA Code: N/E (Non-Exempt)

JOB SUMMARY

Under general supervision, installs services and repairs all components or sub-components of commercial and industrial heating, ventilation, and air conditioning (HVAC) systems. Mechanics at this level install, diagnose problems, and repair commercial and industrial heat pumps and centralized air conditioning systems up to 250 tons with multiple zone applications.

PRIMARY DUTIES

1. Installs, operates, services and repairs chiller plants with tonnage application up to 250 tons. Diagnoses, tests, repairs and replaces complex internal chiller controls and auxiliary components of a total system.
2. Operates, services and repairs air handling and hydronic pumping systems of various designs
3. Performs test and balance procedures to air and hydronic systems to determine required adjustments. Makes adjustments to assure optimal system operation.
4. Tests water in cooling towers; adds chemicals for control of alkalinity algae and scale formation in condensers. Tests water in closed loop systems; add chemicals to control corrosion and bio-growth.
5. Diagnoses, maintains, and performs service repairs to gas burners. Replaces heat exchangers and component controls. Tests and sets up burner operation to provide proper fuel to air ratios.
6. Maintains variable frequency drive applications on pumps and fans.

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7. Services and repairs humidification systems utilizing steam and/or self-generated applications.
8. Services and repairs plumbing and electrical components of HVAC building systems.
9. Provides guidance and training in the HVAC trade to other maintenance personnel.
10. Performs all the duties of the Temperature Control Mechanic and HVAC Mechanic I.

Note:

The intent of this list of primary duties is to provide a representative summary of the major duties and responsibilities of this job. Incumbents perform other related duties assigned. Specific duties and responsibilities may vary based upon departmental needs.

MINIMUM QUALIFICATIONS

EDUCATION: High School Diploma or GED.

EXPERIENCE: Six years progressively responsible experience in any combination of air conditioning, refrigeration, temperature control, steam distribution, or heating trades.

REQUIRED KNOWLEDGE/SKILLS/ABILITIES

Thorough knowledge of the principles of air conditioning and refrigeration; of the practices and techniques used in the installation, repair and maintenance of HVAC equipment and systems; refrigerant types, environmental impact, and gas reclamation procedures and equipment. General knowledge of OSHA regulations related to the refrigeration trade; of National Electric Code; of basic mathematics including area, volume, and weights and the practical application on fractions, percentages, ratios, and proportions. Working knowledge of plumbing, steamfitting, and the electrical trades as they pertain to HVAC systems. Skill in the installation, repair and maintenance of commercial or industrial HVAC equipment and systems; in the use and maintenance of tools and equipment of the trade; in welding, brazing, soldering and silfoss; in reading and interpreting blueprints, schematics, drawings, specifications, and construction documents. Ability to read and understand manufacturer's recommendations regarding scheduled and preventive maintenance, servicing and operation; to use computers and related software to diagnose HVAC system problems; to prepare written reports; to communicate effectively both orally and in writing; to work in, on, around, over and under fixed equipment and machinery; to work at heights up to 35 feet; to manipulate heavy equipment, tools and supplies and/or exert force up to 50 pounds; to concurrently manipulate multiple controls on machinery or equipment; to work in hazardous or

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irritating environments, confined spaces, and adverse weather or temperature conditions; to wear and work in personal protective equipment.

OTHER:

Except for qualifications established by law, additional related experience and formal education in which one has gained the knowledge, skills, and abilities required for full performance of the work of the job class may be substituted for the education or experience requirement on a year-for-year basis with 30 college credits being equivalent to one year of experience.

CONDITIONS OF EMPLOYMENT

Candidates selected for employment may be subject to medical inquiries and/or medical examinations to determine ability to perform the job. Employees assigned to work with CFC refrigerants must maintain valid certification in accordance with federal law. Valid Maryland Non-commercial Class C or equivalent driver's license may be required. Candidates selected for employment may be required to be trained to work with asbestos.