

HVAC Mechanic I

DEFINITION

This is specialized work associated with the effective use of direct digital control automation of heating, ventilation, and air conditioning systems in large buildings. The work involves a high degree of familiarity with pneumatic and electronic control systems, mechanical components, boiler systems equipment, air-conditioning, refrigeration and chiller components, and how systems interact with each other to provide a comfortable environment. Incumbents provide ongoing monitoring of systems to ensure optimal operating conditions, and diagnose equipment malfunctions or other problems. Appropriate remedial measures and repairs are initiated to resolve system component breakdowns or malfunctions. This work also involves the preventative maintenance of equipment and associated components to ensure optimum performance of equipment.

Employees in this class maintain programs designed to meet energy conservation and comfort requirements of buildings, and equipment is adjusted, diagnosed, and repaired as necessary. Appropriate adjustments to instrumentation or equipment repairs are initiated in response to changing conditions. Work is performed under limited supervision and incumbents schedule activities in accordance with ongoing needs and conditions.

TYPICAL DUTIES*

Monitors the environmental and systems status of the heating, ventilation, air conditioning and associated systems within the building on an ongoing basis and adjusts direct digital control systems in accordance with conditions. Prepares reports on the performance of the system.

Responds to equipment malfunctions by initiating the appropriate diagnostic procedures, determining remedial steps to be taken in order to resolve the problem and performing necessary repairs as required.

Initiates the repair of systems and components by outside contractors, manufacturer representatives, or other outside sources when necessary.

Establishes and maintains energy conservation and other automated procedures to optimize the comfort and economy within buildings.

Performs both routine and emergency boiler and associated heating system repairs and maintenance including washouts, pool operation, and chemical treatments.

Performs chiller and cooling tower operations and maintenance procedures.

Ensures the safety of all personnel and building users during maintenance and repair procedures.

Provides inspectional and diagnostic services on mechanical and associated building systems, compiling reports as necessary.

Maintains an inventory of spare parts, tools, maintenance equipment, etc. and orders additional equipment and supplies as necessary.

Trains other personnel on the appropriate operations, adjustments, diagnostic and other procedures related to the direct digital control operation of building systems.

Demonstrates the use of control systems and conducts seminars and tours on building automation systems as required.

Provides direct digital control automation expertise to planning of other projects.

Performs related duties as required.

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KNOWLEDGE, ABILITIES AND SKILLS

Extensive knowledge of direct digital control automation systems and how to provide optimum building environmental comfort and energy conservation through the use of control systems.

Ability to respond to equipment malfunctions by diagnosing the problem and initiating appropriate remedial procedures and repairs.

Ability to work independently and to effectively schedule work in order to meet service demands and minimize disruption to building users.

Knowledge of the specific heating, ventilation, refrigeration, pneumatic and electronic systems control, and associated equipment and systems that provide environmental conditions necessary for building operations.

Skilled in the use of repair tools and equipment for servicing and repairing a wide range of building system malfunctions.

Ability to learn and apply computing skills to the working environment.

Ability to withstand periods of strenuous activity during maintenance and repair procedures and to work in outside inclement weather when necessary.

TRAINING AND EXPERIENCE REQUIREMENTS

Job Level

Certified Alberta Journeyman in an appropriate Heating, Ventilation, and Air Conditioning trade, supplemented by coursework in HVAC Direct Digital Control Systems. Possession of a current 5th Class Power Engineering certificate, and possession of a valid Class 5 Alberta Motor Vehicle Operator's License.

A minimum 1 year of current and relevant experience in aspects of building operation systems, mechanical maintenance and repair work in the HVAC industry.

* *This is a class specification and not an individualized job description. A class specification represents and defines the general character, scope of duties and responsibilities of all positions within a specific job classification. It is not intended to describe nor does it necessarily list the essential job functions for a specific position in a classification. Positions may perform some of the duties listed above but this does not necessarily qualify for placement into this classification.*

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Salary Plan	<u>10M</u>	<u>10A</u>	<u>10B</u>	<u>10C</u>
Job Code	1303			
Grade	082			

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