

Millwright I

DEFINITION

This is journeyman level work in the trade of Millwright.

Work of this class involves the installation, maintenance, repair and testing of mechanical equipment and machinery in plants, buildings and City industrial facilities. Work is generally performed independently with considerable latitude for determining specific work methods and is subject to inspection during progress and/or upon completion. Assignments are in the form of oral and/or written instructions and may be accompanied by detailed sketches, plans and blueprints, specifications and maintenance schedules. Incumbents of this class may be assigned supervision over apprentices or helpers as required.

TYPICAL DUTIES *

Install, repair, overhaul, remove and test mechanical equipment such as pumps, motors, drive units, compressors, collector chains and sprockets, conveyors, heat exchangers and various piping systems.

Erect, construct and level frameworks, foundations and anchors for equipment.

Align frames, couplings, bearings, shafts, and various drives using assorted fastening devices and measurement indicators; identifies and connects external piping such as water supply, drains and lubrication hoses.

Examine and diagnose equipment for excessive vibration, temperature and speed and lubrication abnormalities under operating conditions; adjusts pulleys, belts and drive units as required.

Install and maintain hydraulic, pneumatic and specialty systems including heating, ventilating and air-conditioning equipment, chlorine systems and boilers; adjusts, repairs or replaces components such as pumps, accumulators, control valves, cylinders, control switches and safety devices.

Perform boiler tests including testing water for hardness, dissolved solids, add chemicals as required, testing humidity, analyzing flue gas and gauging pressure of gas pilots.

Interpret layouts, drawings, blueprints and manufacturer's specifications.

Prepare sketches and diagrams; estimates materials and labour requirements for specific jobs.

Perform related duties as required.

KNOWLEDGE, ABILITIES AND SKILLS

Considerable knowledge of the standard methods, practices, materials, tools and equipment of the millwright trade.

Knowledge of the occupational hazards and safety precautions applicable to the work of the trade.

Ability to understand and execute oral and written instructions and to interpret technical plans and specifications.

Spatial perception to visualize from drawings and sketches sequences of parts assembly and relative positions of machinery components; coordination and manual dexterity to accurately assemble parts, make fine adjustments and use precision measuring techniques.

Skill in the use and care of a variety of hand and power tools and equipment of the trade.

TRAINING AND EXPERIENCE REQUIREMENTS

Job Level

Certified Alberta Journeyman in the trade of Millwright.

Possession of a Class 5 Alberta Motor Vehicle Operator's License.

Drainage Services:

The City of Edmonton is required to meet Alberta Environment Wastewater Collection Certification requirements for Drainage Services positions under this classification. All employees are required to obtain Level I Wastewater Collection Certification under the Alberta Environment Certificate program within 2 years of appointment to a permanent position within this class. Once the required level of certification is attained, the employee will transfer to the certified job code for this class, with the commensurate rate of pay.

The Drainage Branch reserves the right to waive the certification requirement for:

- an individual employee after 2 unsuccessful attempts at attaining the certification in a 2 year time frame or for
- a posted Design & Construction Section vacancy, where specific circumstances warrant,

provided that such waiver does not jeopardize the branch's ability to meet Alberta Environment certification requirements. The following classifications in the Drainage Operations Section will continue to require certification and incumbents will not be eligible for waiver of the certification requirement under any circumstances - these classifications are: Drainage Supervisor, Drainage Trainer, Training & Safety Instructor, Drainage Leader II, Maintenance Repairman II, and Pumpwell Millwright II.

* *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	10M	10A	10B	10C
Drainage Uncertified Grade	0069 090			
Drainage Certified Grade	2173 113			
Last Updated:	2010-05			
Originated:	1980-07			