

The University of Winnipeg
Class Specification

Revision Date: April 23, 2007

Classification: Engineer

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Unit: I.U.O.E.

CHARACTER OF THIS CLASSIFICATION LEVEL

The Physical Plant Department is responsible for the entire physical facilities of the University, including all buildings and grounds, furnishings and fixed equipment.

In positions at this level, incumbents perform all the duties involved in operating the Powerhouse of the University's Physical Plant and servicing all related heating, cooling and environmental conditioning equipment, under direction from the Chief Engineer or the Assistant Chief Engineer.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES

1. Operates, maintains and repairs all heating and related equipment including steam boilers and natural gas air handling systems
2. Takes water tests and adds appropriate chemicals to maintain clean and efficient boilers, water towers, chilled and hot water systems
3. Maintains emergency protection systems and equipment in good running order, including: generators, sprinklers, lighting and extinguishers
4. Operates, maintains and repairs all air conditioning systems and related equipment including: chillers, towers, air handling systems, heat pump systems and their pneumatic and electrical components
5. Services compressors, dual duct air flow systems, face and bypass air flow systems, exhaust fans, pumps, motors, electronics, pneumatic controls, filters; lab equipment including: cage washers, controlled environment chambers and autoclaves; kitchen, canteen and buffeteria equipment including refrigeration equipment
6. Utilizes computer to monitor classrooms, offices and theatres to maintain comfort zones
7. Responds to emergencies occurring during a shift including: electrical, plumbing and repairs to entrances and exits
8. Assists in evacuations, according to procedures, in a safe and responsible manner, whenever necessary
9. Is responsible for security, maintenance and repair of all tools and equipment
10. Performs other related duties as required or assigned

QUALIFICATIONS REQUIRED

The minimum qualifications necessary for acceptable (satisfactory) performance are:

Level of Formal Education-

High school completion or acceptable alternative

- Must possess a valid 4th class Government Interprovincial Power Engineer's Certificate
- Must possess or be able to obtain a MOPIA (Manitoba Ozone Protection Industry Association) certificate
- Must have a good knowledge of heating, refrigeration, electrical, electronics, instrumentation, pneumatic controls, building design, plumbing and some carpentry

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| Experience | <ul style="list-style-type: none">- At least five years of directly related experience<u>or</u>- An acceptable equivalent combination of education and experience may be considered |
| Skills and Abilities | <ul style="list-style-type: none">- Must be alert and able to react quickly in emergencies- Must be willing and able to work shift work and holidays- Must be able to communicate effectively to promote cooperation and goodwill with all staff, students and the public- Must be able to handle and operate all tools and equipment necessary for the performance of duties |
| Physical Requirements | <ul style="list-style-type: none">- Must be able to lift and transport heavy items without accident or injury (up to 50 lb.)- Must be capable of performing the duties as assigned |

This class specification is intended to illustrate the characteristics of this classification level and should not be interpreted as a description of any one individual position within this classification level.