

- I. JOB TITLE : REFRIGERATION/AIR-CONDITIONING/
VENTILATION MECHANIC (AIR SYSTEM)
- II. JOB LEVEL : SKILLED WORKER
- III. JOB DESCRIPTION : Fabricates, installs and repairs sheet metal assemblies and products including ventilation ducts, dampers, fire resistant boards and fittings in accordance with specifications.
- IV. TRADE SKILLS : Ability to:
1. Correctly use and maintain the tools of the trade including power and measuring tools.
 2. Undertake marking out and bench fitting to specified tolerances.
 3. Perform welding, soldering and brazing.
 4. Select and use the correct type of fastening devices, jointing and insulation materials.
 5. Make pattern layouts or templates according to design, sketch, specification or instruction.
 6. Fabricate and install sheet-metal assemblies and products in accordance with specifications.
 7. Install sheet metal ducts of air-conditioning systems.
 8. Install, test, maintain and repair dampers, fire resistant boards.
 9. Use safety equipment, protective devices and equipment.
 10. Read and interpret engineering drawings and specifications.
 11. Install, test and maintain ventilation fans.
 12. Correctly instruct, supervise and transfer skills to any apprentice and semi-skilled worker assigned to him to ensure safety and quality of work.

V. TRADE THEORY : Knowledge of:

1. Workshop technology covering fabrication processes, power and hand tools, welding, measuring tools, properties and surface finishing of materials.
2. Engineering science and simple calculations.
3. Engineering drawing, sketching and developments.
4. Standards and requirements of dampers, fire resistant boards and associated controls for fire services systems.
5. Industrial hazards, safety and health precautions, energy saving and environmental concerns.
6. Installation practice and regulations, and relevant codes of practice.
7. Relevant ordinances and regulations.

VI. ENTRY ROUTE : Preferred Minimum Entry Qualification:

Completion of Secondary 3.

Training:

2¹/₂-year organized apprenticeship or 1¹/₂-year organized apprenticeship if preceded by a relevant one-year full-time basic craft course, with attendance at a relevant part-time day-release or block-release craft course in an institute of vocational education or equivalent, plus 1 year post-apprenticeship relevant working experience.