

- I. JOB TITLE : REFRIGERATION/AIR-CONDITIONING/
VENTILATION MECHANIC
(THERMAL INSULATION)
- II. JOB LEVEL : SKILLED WORKER
- III. JOB DESCRIPTION : Prepares, fits, installs and repairs thermal insulations of
air-conditioning systems and refrigeration plants.
- IV. TRADE SKILLS : Ability to:
1. Correctly use and maintain the tools of the trade.
 2. Select and use the correct type of insulation materials.
 3. Select and use the correct type of bonding materials, fastening devices and jointing materials.
 4. Undertake marking out and bench fitting for thermal insulation to specified tolerances.
 5. Install and repair thermal insulations for air-conditioning and refrigeration plants and systems.
 6. Read and interpret thermal insulation specifications and building plans.
 7. Use approved mechanical handling and lifting equipment.
 8. Use safety equipment, and protective devices and equipment.
 9. 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, measuring tools, properties and surface finishing of materials.
 2. Dimension units and simple calculations.
 3. Engineering drawing, sketching and developments.

4. Thermal insulating materials and mounting techniques.
5. Properties of bonding materials and common chemicals.
6. Industrial hazards, safety and health precautions, energy saving and environmental concerns.
7. Installation practice and regulations, and relevant codes of practice.
8. Relevant ordinances and regulations.

VI. ENTRY ROUTE : Preferred Minimum Entry Qualification:

Completion of Secondary 3.

Training:

50 hours relevant off-the-job training with a pass in the end-of-training assessment preferably in an institute of vocational education, and 2 years on-the-job training/apprenticeship.