

- I. JOB TITLE : BUILDING SECURITY SYSTEM MECHANIC
- II. JOB LEVEL : SKILLED WORKER
- III. JOB DESCRIPTION : Installs, maintains and repairs building security systems including building doorphone systems, closed circuit television systems, public address systems, security alarm systems, access control systems and building control and monitoring systems.
- IV. TRADE SKILLS : Ability to:
1. Correctly use and maintain the tools of the trade including crimping and termination tools, test equipment and measuring instruments.
 2. Install and properly maintain building security systems and equipment according to stipulated procedures.
 3. Locate and repair faults in building security systems and equipment.
 4. Service and calibrate building security systems and equipment.
 5. Identify and install different types of cables and wires including fibre optic cables.
 6. Use safety equipment, and protective devices and equipment.
 7. Read and interpret simple building security equipment specifications, electrical and electronic wiring and circuit diagrams, and building plans.
 8. Inspect, test and commission building security 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. Basic electrical engineering and electronics.
2. Electrical and electronic symbols and wiring diagrams, and layout drawings for building security systems.
3. Operating principles of building security systems and equipment.
4. Use of test equipment and measuring instruments.
5. Extra low voltage (ELV) system.
6. Basic workshop practice, engineering materials, conduit and wiring.
7. Industrial hazards, safety and health precautions, and environmental concerns.
8. Installation practice and regulations, and relevant codes of practice.
9. Relevant ordinances and regulations.

VI. ENTRY ROUTE : Preferred Minimum Entry Qualification:

Completion of Secondary 3.

Training:

3-year organized apprenticeship or 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.