

- I. JOB TITLE : FIRE SERVICES ELECTRICAL FITTER
- II. JOB LEVEL : SKILLED WORKER
- III. JOB DESCRIPTION : Installs, tests, inspects, maintains and repairs automatic fire alarm (AFA) and manual fire alarm systems, and electrical/electronic parts of fire services systems.
- IV. TRADE SKILLS : Ability to:
1. Correctly use and maintain the tools of the trade including power tools, test equipment and measuring instruments.
  2. Install, operate and properly maintain fire services systems and equipment in electrical/electronic aspects according to stipulated procedures.
  3. Locate and repair faults in fire services systems and equipment.
  4. Overhaul and service electrical parts of fire services systems and electrical/electronic equipment of the systems.
  5. Use safety equipment, and protective devices and equipment.
  6. Read and interpret fire services system schematic drawings, installation plan, electrical wiring and circuit diagrams, and layout plans.
  7. Inspect, test and commission electrical parts of the services systems.
  8. Correctly dispose waste chemicals, equipment containing radioactive substances and unused extinguishing agents involved.
  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 fire services engineering technology:
2. Basic workshop practice, engineering materials, welding, conduit and wiring.
3. Line diagrams and layout drawings for fire service systems.
4. Operating principles of electrical/electronic equipment of fire services systems.
5. Motors and starting methods and control equipment.
6. Single and three-phase circuits, earthing and general protection.
7. Interface between electrical/electronic and mechanical equipment of fire services systems, and between fire service systems and building services systems in a building.
8. Basic operating principles of fire extinguishing agents including gaseous extinguishing agents and its applications.
9. Basic environmental technology.
10. Industrial hazards, safety and health precautions, energy saving and environmental concerns.
11. Installation practice and regulations, and relevant codes of practice.
12. Relevant ordinances and regulations.

VI. ENTRY ROUTE : Preferred Minimum Entry Qualification:

Completion of Secondary 3.

Training:

4-year organized apprenticeship or 3-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.