

- I. JOB TITLE : LIFT AND ESCALATOR MECHANIC
- II. JOB LEVEL : SKILLED WORKER
- III. JOB DESCRIPTION : Installs, adjusts, maintains and repairs various types of lifts and escalators.
- IV. TRADE SKILLS : Ability to:
1. Correctly use and maintain the tools of the trade including power tools, alignment and measuring instruments, and test equipment.
 2. Install, adjust, maintain, locate and repair faults in lifts and escalators, and carry out modifications according to instructions.
 3. Use electric and gas welding equipment.
 4. Use approved mechanical handling and lifting equipment.
 5. Test lift and escalator safety equipment.
 6. Climb ladder and scaffolding.
 7. Read and interpret relevant electrical, mechanical and building drawings.
 8. Locate and repair faults in lift and escalator systems and equipment.
 9. Use safety equipment, and protective devices and equipment.
 10. Correctly instruct, supervise and transfer skills to any apprentice or semi-skilled worker assigned to him to ensure safety and quality of work.
- V. TRADE THEORY : Knowledge of:
1. Type of drives and their applications.
 2. Rotating machines and motor control circuits.
 3. Line diagrams and layout drawings for lift and escalator systems.

4. Basic workshop practice and simple calculations.
5. Steel wire ropes and chains, their constructions, materials, tensioning, fastenings and maintenance.
6. Escalator step drive mechanisms.
7. Lift door operating and interlocking systems.
8. Mechanical and electrical safety equipment of lifts and escalators.
9. Cars, counter-weights and guides, and lubricants used for bearings, bushes, gears, guides and ropes.
10. Basic mechanics including slings, derricks, winches and shearlegs, variation of load with angle, factors of safety, centre of gravity, equilibrium and friction.
11. Insulation against noise and vibration.
12. Industrial hazards, safety and health precautions, energy saving and environmental concerns.
13. Installations practice and regulations, and relevant codes of practice.
14. 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.

VII. STATUTORY REQUIREMENT : A qualified lift and escalator mechanic should at the same time be registered as a lift mechanic and an escalator mechanic under the Lifts and Escalators (Safety) Ordinance.