

- I. *JOB TITLE* : **SERVICING MECHANIC**
[Maintenance Mechanic Fitter, Machinist]
- II. *JOB LEVEL* : CRAFTSMAN
- III. *JOB DESCRIPTION* : Fits, assembles, installs, repairs and maintains plant and machinery and makes replacement parts when required.† OR
Sets up and operates machine tools to produce components according to specifications.*
- IV. *TRADE SKILLS* : Ability to:
1. Install plant and machinery.†
 2. Carry out preventive maintenance programmes.†
 3. Diagnose faults, repair or replace defective parts in plant and machinery, and keep records of such repairs or replacements.†
 4. Use and care for measuring instruments and standards.†
 5. Undertake proper marking out on workpieces.
 6. Fit to specified tolerances.
 7. Carry out simple sheetmetal work such as cutting, bending, folding, rolling and seaming.†
 8. Perform arc and gas welding, soldering and brazing.†
 9. Perform heat treatment of metals to give specified properties.
 10. Carry out simple pipe work such as bending, threading and jointing.†
 11. Read and interpret engineering drawings and specifications.
 12. Use and care for hand and machine tools.

13. Carry out all necessary safety precautions.
14. Set up and operate common machine tools including: *
 - (a) centre lathes,
 - (b) milling machines (horizontal, vertical and universal),
 - (c) grinding machines (surface and cylindrical),
 - (d) shapers.
15. Use and care for measuring instruments and standards. *
16. Identify and select materials in accordance with specifications. *
17. Select and sharpen cutting tools. *
18. Select and use correct speeds, feeds, lubricants and coolants for efficient machining. *

V. *TRADE THEORY* : Knowledge of:

1. Workshop technology including fitting, hand and machine tools, metrology, fabrication processes, properties and heat treatment of materials. †
2. Workshop technology including machine and hand tools, metrology, properties and heat treatment of materials. *
3. Engineering science and workshop calculations. †
4. Engineering drawing. †
5. Principles of electricity, hydraulics and pneumatics. †
6. Industrial hazards including those associated with power driven machinery and other electrical and mechanical work, and safety precautions to be observed.

7. Relevant sections of the Factories and Industrial Undertakings Ordinance, national and international safety standards and regulations, and codes of practice.
8. Standards of measurement.*
9. Standards and specifications of surface finish.*
10. Basic electrical theories.*

VI. *QUALIFICATIONS AND TRAINING* : Stream 1

Successful completion of Secondary 3, plus 4-year organized craft apprenticeship with attendance at a relevant part-time day release or block release craft course in a technical institution.

Stream 2

Successful completion of a relevant 1-year full-time basic craft course or a relevant 3-year full-time course in a prevocational school, plus 3-year organized craft apprenticeship with attendance at a relevant part-time day release or block release craft course in a technical institution.

Note: [] Equivalent job title

* For Machinist only.

† For Maintenance Mechanic Fitter only.