Job Description

Under direct supervision, you will need to complete training courses in order to acquire the knowledge required to select, use and care for tools, equipment and material.

Unit Standard

This job will assess the following unit standard

All activities shall be conducted in accordance with workplace procedures.

Knowledge

You will learn about the following from your training provider or workplace trainer/supervisor:

- Types and uses of hand and power tools
- Safety hazards in using tools and equipment
- Types of materials used
- Precautions to avoid hazards
- Identification and reporting of unsafe and faulty tools and appropriate corrective action at this level
- Correct cleaning and maintenance methods for trade tools and equipment
- Importance of keeping accurate personal tool records and equipment, using workplace forms and audit procedures
- Electrical principles and basic knowledge of electronic systems and components, how they work and what they do
- ISO Coding systems of cabling, wiring and components
- Introduction to basic computing applications

Demonstration

To show that you can apply your knowledge in the workplace you will need to:

- Identify, use and store a range of tools, equipment and material correctly that may include but not limited to:
  - Mechanical tools
    - Dial indicator
    - Revolution meter
    - Vernier caliper
    - Spanners
    - Grease gun
    - Pliers (screws and bolts)
  - Electrical tools
    - Multimeter
    - Clamp meter
    - Insulation testers and safety gloves
    - Insulated tools, screw drivers, side cutters, pliers
  - Civil Works
    - Materials
      - Wooden planks
      - Spun ductile iron
      - GI Pipes
      - Mild steel
      - Unplastified polyvinyl chloride (uPVC)
      - High density polyethylene (HDPE)
      - Asbestos cement
      - Pre-stressed concrete
      - Glass reinforced plastic (GRP)
      - Penstock joining
  - Turbines
    - Impulse turbine
    - Pelton turbine (waterwheel)
    - Turgo Impulse turbines
    - Generator
    - Nozzle inlet
    - Turgo Runner
    - Crossflow turbine
  - Reaction Turbine
    - Drive Systems (Direct drive, flat belt and pulleys, V or wedge belt and pulleys, chain and sprocket, and Gearbox)
    - Electrical Power (AC and DC)
    - Governors (Turbine Controls)
    - Switchgear Equipment
    - Automatic control

- Keep accurate records for personal and workplace tool storage systems
- Conduct tool checks as required by workplace procedures
- Report identified faults to supervisor in accordance with workplace procedures

Attach the reports from your training provider here