

Domain

JOINERY AND CABINET MAKING

Title:

**Use and maintain portable power tools
and machines**

Level: 2

Credits: 6

Purpose

This unit standard specifies the competencies required to use and maintain portable power tools and machines. This includes identifying and selecting portable power tools, hydraulic and machines, identifying procedures for safe use of portable power tools, hydraulic and machines, performing tasks using portable power tools, hydraulic and machines, and maintaining and storing portable power tools, hydraulic and machines.

This unit standard is intended for those who work as joiners and cabinet makers.

Special Notes

1. Entry information:

Prerequisite:

- 1157-*Demonstrate basic knowledge of workplace health and safety* or demonstrated equivalent knowledge and skills.

2. To demonstrate competence, at a minimum, evidence is required of the safe and effective use of different portable power tools, pneumatic tools, hydraulic and machines in undertaking a range of tasks. These tasks must be performed ensuring correct identification of requirements, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.

3. Portable power tools may include but are not limited to, planers, belt sander, hand circular saws, routers and biscuit jointers.

4. Pneumatic tools may include but are not limited to compressor, nail gun, staple gun, spray gun and drills.

5. Hydraulic and machines may include but are not limited to table saw, press-drill, bench grinder, band saw, hydraulic press, circular panel saw, surface planner, thickness planer, spindle moulders, dowel machine, dust extractor, radial arm saw, chain and chisel mortiser.

6. Assessment evidence may be collected from a real or simulated workplace in which joinery and cabinet making operations are carried out.

7. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' and company guidelines, instructions, and reasonable flat rate time.
8. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act No 11, 2007 as amended;
 - SABS 0400, NOSA, Local Authorities Act;
 - Occupational Health and Safety Regulations No. 18, 1997 and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Identify and select portable power tools, hydraulic and machines

Performance criteria

- 1.1 Portable power tools, machines and pneumatic tools are identified.
- 1.2 Functions and limitations of portable power tools, pneumatic tools, hydraulic and machines are identified.
- 1.3 Parts and accessories of portable power tools, pneumatic tools, hydraulic and machines are identified.
- 1.4 Portable power tools, pneumatic tools, hydraulic and machines are selected consistent with job requirements.

Element 2: Identify procedures for safe use of portable power tools, hydraulic and machines

Performance criteria

- 2.1 Hazards associated with electrical and compressed air is identified.
- 2.2 Procedures for safe use of portable power tools, pneumatic tools and machines are explained.

Element 3: Perform tasks using portable power tools, hydraulic and machines

Performance criteria

- 8.1 Methods of operation of portable power tools, pneumatic tools and machines are identified from specifications and manufacturers' instructions.
- 8.2 Safety requirements for portable power tools, pneumatic tools and machines are identified and applied including the use of machine guards.
- 8.3 Personal protective equipment required for the operation of portable power tools, pneumatic tools and machines are identified and used in accordance with regulatory and workplace procedures.
- 8.4 Machines and machine guards are set up and adjusted to requirements in line with workplace specifications.
- 8.5 Tools and machines are safely located and protected when not in use in line with workplace procedures.
- 8.6 Power tools, pneumatic tools and machines are safely used in line with manufacturers' specifications and workplace procedures.

Element 4: Maintain and store portable power tools, hydraulic and machines

Performance criteria

- 4.1 Portable power tools, machines and pneumatic tools are checked for faults and serviceability in line with workplace procedures.
- 4.2 Unsafe and faulty portable power tools, pneumatic tools and machines are identified and marked or repaired according to designated procedures.
- 4.3 Cleaning and routine maintenance of portable power tools, pneumatic tools and machines are undertaken according to standard procedures.
- 4.4 Portable power tools, pneumatic tools and machines are stored according to standard operating procedures and manufacturers' recommendations.

Registration Data

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