

Domain

Title:

Level: 2

CARPENTRY

Use and maintain machines

Unit ID: 1581

Credits: 6

Purpose

This unit standard specifies the competencies required to use and maintain machines. It includes planning and preparing for work, identifying machines and accessories used, identifying procedures for safe use of machines, perform tasks using machines, inspecting and maintaining machines, demonstrating speed selection of machines for processing materials, completing work and cleaning up the work area.

This unit standard is intended for those who work as carpenters.

Special Notes

1. Entry information:

Prerequisite:

- *1157-Demonstrate basic knowledge of workplace health and safety or demonstrated equivalent knowledge and skills.*
2. This unit standard is to be delivered and assessed in the context of carpentry operations and should be assessed in conjunction with other relevant technical unit standards selected from this domain.
 3. To demonstrate competence, at a minimum, evidence is required of use of different machines in undertaking a range of tasks.
 4. Assessment evidence may be collected from a real workplace or simulated workplace in which carpentry operations is carried out.
 5. Machines may include but are not limited to compressor, press-drill, bench grinder, saws, planes, mortiser, spindle moulder, edge bender, dowel, woodturning lathe and sanders.
 6. 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.
 7. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11, 2007 as amended;
 - 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: Plan and prepare for work

Range

Planning and preparation include but are not limited to worksite inspection, equipment and material defects identifications and hazards and determination of work requirements.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and implemented.
- 1.4 Tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults rectified or reported prior to commencement.
- 1.5 Material quantity requirements are calculated in accordance with plans and/or specifications.
- 1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located, ready for use.
- 1.7 Environmental protection requirements are identified and applied in accordance with environmental plans and regulatory obligations.

Element 2: Identify machines and accessories used

Performance criteria

- 2.1 Machines are identified.
- 2.2 Functions and limitations of machines are explained.
- 2.3 Machines are selected consistent with job requirements.

Element 3: Identify procedures for safe use of machines

Range

Machines may include but not limited to hydraulic, electrical, pneumatic, fuel driven machines and moving parts.

Performance criteria

- 3.1 Dangers associated with machines are explained.
- 3.2 Procedures for safe use of machines are explained.

Element 4: Perform tasks using machines

Performance criteria

- 4.1 Methods of operation of machines are explained.
- 4.2 Safety requirements for machines are explained and demonstrated.
- 4.3 Personal protective equipment required for the operation of machines are explained.
- 4.4 Safe uses of machines are demonstrated.

Element 5: Inspect and maintain machines

Performance criteria

- 5.1 Machines are checked for faults and serviceability in line with workplace procedures.
- 5.2 Unsafe and faulty machines are identified and marking for repair explained.
- 5.3 Cleaning and routine maintenance of machines are explained and demonstrated.
- 5.4 Machines are stored according to standard operating procedures and manufacturers' recommendations.

Element 6: Demonstrate speed selection of machines for processing materials

Performance criteria

- 6.1 Cutting and drilling of materials are explained.
- 6.2 Feeding speeds are determined and explained.
- 6.3 Dangers associated with cutting and feeding speed selection are explained.
- 6.4 Cutting, drilling and feeding speeds of materials is demonstrated.

Registration Data

Subfield:	General Construction
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