

**Domain****CARPENTRY****Title:****Manufacture and install timber products****Level: 3****Credits: 5****Purpose**

This unit standard specifies the competencies required to manufacture and install timber products. It includes planning and preparing for work, preparing drawings for different types and designs of products, cutting and assembling components for different products and installing and finishing timber products.

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 to manufacture and install timber products. The products include kitchen units, wardrobes, bar counters, bookshelves, linen cupboards, bathroom cupboards, laundry cupboards, display cupboards, television units, dressing tables, entertainment units and counters.

4. Assessment evidence may be collected from a real workplace, or simulated real workplace in which carpentry operations are carried out.

5. Materials may include but are not limited to wood panelling, adhesives, supawood, post formed tops, surino tops, melamine and polyvinyl chloride edging, screws and nails, fixatives, adhesives, fixtures and finishes.

6. Tools and equipment may include but are not limited to table saws, face planer and thicknesser, jigsaw, drilling machine, mallets, plumb bob, power drills, cordless drills, bevels, biscuit jointer, spirit level, straight edge, laser level, squares, screw drivers, hammers, ladders, braces and scaffolding.

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;
- Public and Environmental Health Act No 1, 2015;

- 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](http://www.namqa.org) and the Namibia Training Authority on [www.nta.com.na](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Plan and prepare for work**

#### **Range**

Planning and preparation includes but is not limited to worksite inspection, equipment and materials defects identification, assessment of conditions and hazards and determination of work requirements.

Work instructions may include but are not limited to including plans, specifications, quality requirements and operational details

#### **Performance criteria**

- 1.1 Work instructions are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in line with safety plans and policies.
- 1.3 Tools and equipment selected to carry out tasks are consistent with the requirements of the job.
- 1.4 Materials appropriate to the work application are obtained, safely handled and located ready for use.
- 1.5 Material quantity requirements are calculated in line with drawing specifications.
- 1.6 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

### **Element 2: Prepare drawings for different types and designs of products**

#### **Performance criteria**

- 2.1 Interpret specifications of products.
- 2.2 Specifications and requirements for timber products are identified and explained.

- 2.3 Drawings for timber products are prepared in line with customer requirements and workplace procedures.

### **Element 3: Cut and assemble components for different products**

#### **Performance criteria**

- 3.1 Drawings and designs of identified product is interpreted.
- 3.2 Tools, equipment and machines are identified.
- 3.3 Cutting list is prepared in line with specifications of selected products.
- 3.4 Materials are marked, cut and planed to specifications.
- 3.5 Joints are cut, chiselled and drilled to specifications.
- 3.6 Mouldings are prepared to specifications.
- 3.7 Components are assembled in line with specifications.
- 3.8 Fittings are installed in line with specifications.

### **Element 4: Install and finish timber products**

#### **Performance criteria**

- 4.1 Site inspection is conducted.
- 4.2 Methods of installation are identified according to specifications.
- 4.3 Finishing methods and products are identified and selected.
- 4.4 Timber products are installed in line with job requirements.

### **Registration Data**

<b>Subfield:</b>	General Construction
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