

<b>Domain</b>	<b>CARPENTRY</b>	<b>Unit ID: 1593</b>
<b>Title:</b>	<b>Manufacture complex timber windows and window frames</b>	
<b>Level: 3</b>		<b>Credits: 4</b>

### Purpose

This unit standard specifies the competencies required manufacturing complex timber windows and window frames. It includes planning and preparing for work, selecting different types of timber windows and window frames, preparing materials, assemble components and finishing window and window frames.

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. To demonstrate competence, evidence is required of the manufacturing of top and bottom hang, side hang, pivoting, sliding and sliding sash of windows and their frames.
3. Assessment evidence may be collected from a real workplace, or simulated real workplace in which carpentry operations are carried out.
4. Glossary of terms:
  - '*Specifications*' refers to manufacturer's specifications and recommendations and workplace specific requirements
  - '*Complex*' refers to complicated set up or function.
5. 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.
6. 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 include but are not limited to worksite inspection, equipment and materials defects identification, assessment of conditions and hazards and determination of work requirements.

Tools and equipment may include but not limited to: rip saw, panel saw, hammer, chisel, drilling machine, surface planer, thickness planer, spindle moulder, dowel machine, dust extractor, press, radial arm saw, mortiser.

Timber to be used in timber windows and window frames may include but not limited to: solid beech, oak, dolf, teak, pine and meranti.

Safe working practices to include the identification, selection and wearing of personal protective clothing, reading and interpretation of safety signs and symbols used in Carpentry; complying with health and safety instructions on product labeling and the safe use, maintenance and storage of all tools.

#### **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 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 are rectified or reported prior to commencement of work.
- 1.5 Material quantity requirements are calculated in accordance with plans and 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: Select different types of timber windows and window frames**

### **Performance criteria**

- 2.1 Types of timber windows and window frames are selected for different applications and reasons for selection explained to clients.
- 2.2 Shapes and designs for timber windows and window frames are recognised, selected for given applications and explained to client.

### **Element 3: Prepare materials**

#### **Performance criteria**

- 3.1 Timber is selected taking into account grain size, surface texture and free from defects.
- 3.2 Cutting lists are prepared in line with workplace procedures.
- 3.3 Materials are marked, cut and planed to size in line with workplace procedures.
- 3.4 Mouldings and joints are prepared according to specifications.

### **Element 4: Assemble components**

#### **Performance criteria**

- 4.1 Components are assembled to specifications.
- 4.2 Fittings are fitted in line with specifications.

### **Element 5: Finish window and window frames**

#### **Performance criteria**

- 5.1 Finishing products are identified and selected in line with workplace procedures.
- 5.2 Finishing methods are applied in line with workplace procedures.

### **Registration Data**

<b>Subfield:</b>	General Construction
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