

Domain

**JOINERY AND CABINET MAKING**

Title:

**Read and produce detailed orthographic  
and isometric drawings**

Level: 2

Credits: 4

**Purpose**

This unit standard specifies the competencies required to read and produce detailed orthographic and isometric drawings. This includes reading and interpreting third angle orthographic projection of complex joinery objects, reading and interpreting oblique drawings of complex joinery objects, producing third angle projection, producing oblique drawings, and filing and store drawings.

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 read and produce detailed orthographic and isometric drawings

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

4. 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.

5. '*Specifications*' refers to any, or all of the following: manufacturer's specifications and recommendations and workplace specific requirements.

6. 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](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: Read and interpret third angle orthographic projection of complex joinery objects**

#### **Performance criteria**

- 1.1 Signs, abbreviations and symbols and their meanings are identified on given drawings and sketches.
- 1.2 Dimensions are interpreted.
- 1.3 Conversions of scales are interpreted.
- 1.4 Line diagrams are interpreted.

### **Element 2: Read and interpret oblique drawings of complex joinery objects**

#### **Range**

Types of oblique are cabinet and cavalier.

#### **Performance criteria**

- 2.1 Types of oblique drawings are identified and explained.
- 2.2 Signs, abbreviations and symbols and their meanings are identified on given drawings and sketches.
- 2.3 Different dimensions are interpreted.
- 2.4 Measurements are taken and interpreted.
- 2.5 Line diagrams are interpreted.

### **Element 3: Produce third angle projection**

#### **Performance criteria**

- 3.1 Views of objects are produced and labelled in accordance with the conventions of third angle projection.
- 3.2 Lines, signs, symbols and abbreviations are used in drawings.
- 3.3 Scale is identified and applied in line with standard drawing connections of third angle projections.

#### **Element 4: Produce oblique drawings**

##### **Performance criteria**

- 4.1 Views of objects are produced and labelled in accordance with the conventions of oblique drawings.
- 4.2 Lines, signs, symbols and abbreviations are used in drawings.
- 4.3 Line diagrams are interpreted.

#### **Element 5: File and store drawings**

##### **Performance criteria**

- 5.1 Filing system is applied in line with workplace procedures.
- 5.2 Drawings are maintained and stored in designated files.

#### **Registration Data**

<b>Subfield:</b>	Manufacturing
<b>Date first registered:</b>	15 November 2007
<b>Date this version registered:</b>	28 March 2018
<b>Anticipated review:</b>	2023
<b>Body responsible for review:</b>	Namibia Training Authority