

Domain

**JOINERY AND CABINET MAKING**

Title:

**Perform calculations in a joinery and cabinet making environment**

Level: 2

Credits: 3

**Purpose**

This unit standard specifies the competencies required to perform calculations in a joinery and cabinet making environment. This includes determining material list for a given project, and using and converting the different scales of measurement.

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 solving mathematical and scientific problems related to the:

- calculation of the mass and weight of solid objects of different shapes and dimensions
- calculation of the mass and weight of liquids in containers of different shapes and dimensions
- reading and interpretation of the measurement scales of the measuring instruments used.

3. Materials may include but are not limited to different solids and liquids used in joinery and cabinet making.

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

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

## **Elements and Performance Criteria**

### **Element 1: Determine material list for a given project**

#### **Performance criteria**

- 1.1 Specifications are determined from plans, drawings and client instructions.
- 1.2 Types and quantities of materials required for projects and products are identified and listed.
- 1.3 Labour and other requirements needed for projects and products are determined in line with workplace procedures.

### **Element 2: Use and convert the different scales of measurement**

#### **Performance criteria**

- 2.1 Measurement scales used on different measuring tools are identified and explained.
- 2.2 The different scales on measuring instruments are converted, transferred and used to calculate the true dimension, mass and volume of objects.
- 2.3 Measurements are taken using different measurement scales.
- 2.4 The results of the calculations are confirmed and recorded.

### **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