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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY**

**REGISTERED UNIT STANDARD THAT HAS PASSED THE END DATE:**

**Erect and brace roof structure**

SAQA US ID		UNIT STANDARD TITLE		
14958		Erect and brace roof structure		
ORIGINATOR		REGISTERING PROVIDER		
SGB Building Construction				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 12 - Physical Planning and Construction			Building Construction	
ABET BAND	UNIT STANDARD TYPE	OLD NQF LEVEL	NEW NQF LEVEL	CREDITS
Undefined	Regular	Level 3	NQF Level 03	15
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Passed the End Date - Status was "Reregistered"		2006-08-01	2009-08-01	SAQA 0160/05
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2010-08-01		2013-08-01		

*In all of the tables in this document, both the old and the new NQF Levels are shown. In the text (purpose statements, qualification rules, etc), any reference to NQF Levels are to the old levels unless specifically stated otherwise.*

This unit standard does not replace any other unit standard and is not replaced by any other unit standard.

**PURPOSE OF THE UNIT STANDARD**

The purpose of this unit standard is to enable learners to erect and brace timber roof structures, in line with safety legislation, and National Building Regulations and requirements, and based on specification drawings. The role of safety is crucial, and understanding the implications of design modifications and industry convention to deal with practical challenges are important factors when attaining the outcomes of this unit standard. Learners mostly apply competence under supervision of a team leader.

**LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING**

FETC NQF Level 2 literacy and numeracy competencies

## **UNIT STANDARD RANGE**

1. Levelling includes using spirit levels, water levels tapes, plumb bobs, chalk lines, dumpy levels, etc.
2. Materials include trusses, rafters, brackets, cleats and connection materials such as nails, bolts, washers and nuts, barge and fascia boards, and soffit, etc.
3. Specifications include designer, ITC and SABS requirements
4. Trusses include valley trusses, and single and multiple member trusses
5. Erecting, bracing and fixing trusses include temporarily bracing trusses to prevent collapse, levelling and plumbing trusses, temporarily fixing trusses where they connect to girders, placing cantilever and stub trusses, nailing battens, nailing purlins and fixing hurricane metal clips/swing clips, splicing long lengths of runners, purlins and bracing, installing DPC wrap (for masonry pockets), installing under-valley battens/purlins to valley area and cross brace, etc.
6. The scope of this unit standard does not extend that of SABS 0400

## **Specific Outcomes and Assessment Criteria:**

### **SPECIFIC OUTCOME 1**

Set out truss positions.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

1. The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level

#### **ASSESSMENT CRITERION 2**

2. Safety requirements are adhered to

#### **ASSESSMENT CRITERION 3**

3. Allocated time frames are accurately determined and realistic

### **SPECIFIC OUTCOME 2**

Erect and brace trusses.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

1. Equipment and tools are used correctly and safely

#### **ASSESSMENT CRITERION 2**

2. Allocated time frames are adhered to

#### **ASSESSMENT CRITERION 3**

3. Girders are accurately positioned for bearing trusses

#### **ASSESSMENT CRITERION 4**

4. Trusses are erected and braced safely and in accordance with specifications

#### **ASSESSMENT CRITERION 5**

5. All trusses are free from internal wall support unless designed to be supported

## **ASSESSMENT CRITERION 6**

6. Permanent bracing is correctly installed, and all trusses are tied down with roof ties, and fixed in accordance with design specifications

## **UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS**

Accreditation Process and Moderation

Assessment of learner achievements takes place at providers accredited by CETA (RSA, 1998b) for the provision of programs that result in the outcomes specified for the National Certificate for Timber Roof Erecting. CETA is responsible for moderation of learner achievements of learners who meet the requirements of this unit standard. Those assessing the outcomes of this unit standard should be qualified assessors, registered with CETA for assessment of the qualification.

## **UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE**

Qualifying learners understand and can explain:

1. Building terminology
2. The relevant SABS code of practice, and safety legislation
3. Properties, maintenance and care of equipment, materials and tools
4. Scale drawings, dimensions and tolerances

## **UNIT STANDARD DEVELOPMENTAL OUTCOME**

N/A

## **UNIT STANDARD LINKAGES**

N/A

## **Critical Cross-field Outcomes (CCFO):**

### **UNIT STANDARD CCFO IDENTIFYING**

Identify and solve problems relate to the following:

All Specific Outcomes

Assessment Criteria:

The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level

Allocated time frames are accurately determined and realistic

Allocated time frames are adhered to

### **UNIT STANDARD CCFO WORKING**

Work effectively with others relates to the following:

Specific Outcome:

Set out truss positions

Assessment Criteria:

Safety requirements are adhered to

Allocated time frames are accurately determined and realistic

### **UNIT STANDARD CCFO ORGANISING**

Employ self management, relates to the following:

All Specific Outcomes

Assessment Criteria:

The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level

Safety requirements are adhered to

Allocated time frames are accurately determined and realistic

Equipment and tools are used correctly and safely

Allocated time frames are adhered to

Girders are accurately positioned for bearing trusses

Trusses are erected and braced safely and in accordance with specifications

All trusses are free from internal wall support unless designed to be supported

Permanent bracing is correctly installed, and all trusses are tied down with roof ties, and fixed in accordance with design specifications

**UNIT STANDARD CCFO COLLECTING**

Manage information, relates to the following:

All Specific Outcomes

Assessment Criteria:

The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level

Allocated time frames are accurately determined and realistic

Trusses are erected and braced safely and in accordance with specifications

Permanent bracing is correctly installed, and all trusses are tied down with roof ties, and fixed in accordance with design specifications

**UNIT STANDARD CCFO COMMUNICATING**

Communicate effectively, relates to the following:

Specific Outcomes:

Erect and brace trusses

Assessment Criteria:

Allocated time frames are accurately determined and realistic

**UNIT STANDARD CCFO SCIENCE**

Demonstrate scientific and technological competence, relate to the following:

All Specific Outcomes

Assessment Criteria:

The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level

Equipment and tools are used correctly and safely

Girders are accurately positioned for bearing trusses

Trusses are erected and braced safely and in accordance with specifications

All trusses are free from internal wall support unless designed to be supported

Permanent bracing is correctly installed, and all trusses are tied down with roof ties, and fixed in accordance with design specifications

**UNIT STANDARD CCFO DEMONSTRATING**

Understand contextual world-systems, relates to the following:

All Specific Outcomes

Assessment Criteria:

The truss positions are set out and marked off based on specification drawings, including that truss types are accurately related to building sections, and levels and datums are accurately transferred, and that trusses are straight, plumb, aligned and level  
 Safety requirements are adhered to  
 Girders are accurately positioned for bearing trusses  
 Trusses are erected and braced safely and in accordance with specifications  
 All trusses are free from internal wall support unless designed to be supported  
 Permanent bracing is correctly installed, and all trusses are tied down with roof ties, and fixed in accordance with design specifications

**QUALIFICATIONS UTILISING THIS UNIT STANDARD:**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>OLD LEVEL</b>	<b>NEW LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	<a href="#">24295</a>	National Certificate: Timber Roof Erecting	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-08-01

**PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS UNIT STANDARD:**

*This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Quality Assuring Bodies have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Quality Assuring Body should be notified if a record appears to be missing from here.*

**NONE**

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