



All qualifications and unit standards registered on the National Qualifications Framework are public property. Thus the only payment that can be made for them is for service and reproduction. It is illegal to sell this material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged as the source.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

REGISTERED UNIT STANDARD THAT HAS PASSED THE END DATE:

Manufacture and construct site-made/bolted trusses

SAQA US ID	UNIT STANDARD TITLE			
14961	Manufacture and construct site-made/bolted trusses			
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 manufacture and construct site-made (bolted) trusses for roofing, 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. Specification drawings include dimensions, scaling, scale drawings, slopes and tolerances
2. Materials include timber, and fixing components
3. Cutting to specification includes developing cutting templates (jigs)
4. Trusses include howe trusses, gable roof trusses, hip trusses, hip rafters, valley rafters, valley jacks, and nail plate roof trusses

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Set out trusses.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Trusses are set out based on specification drawings

ASSESSMENT CRITERION 2

2. Safety requirements are adhered to

ASSESSMENT CRITERION 3

3. Allocated time frames are accurately determined and realistic

SPECIFIC OUTCOME 2

Manufacture rafters and 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. Timber is marked and cut, drilled and machined according to design

ASSESSMENT CRITERION 4

4. Trusses and rafter components are constructed according to specification drawings

SPECIFIC OUTCOME 3

Construct trusses.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Equipment and tools are used correctly and safely

ASSESSMENT CRITERION 2

2. Joints are close-fitting, not forced into position (due to defects in the material), and out of plane

eccentricities are kept to a minimum

ASSESSMENT CRITERION 3

3. Allocated time frames are adhered to

ASSESSMENT CRITERION 4

4. Manufactured truss components are constructed into formwork according to specification drawings

ASSESSMENT CRITERION 5

5. Trusses are assembled in a plane conducive to avoiding damage to members

SPECIFIC OUTCOME 4

Store trusses, materials, equipment and tools.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Safe storage is ensured

ASSESSMENT CRITERION 2

2. Trusses are stored in the required place as per site requirements

ASSESSMENT CRITERION 3

3. Materials are stored correctly, based on properties, application, and the supplier specification

ASSESSMENT CRITERION 4

4. Equipment is stored correctly, based on properties, application, manufacturer requirements, and the supplier specification

ASSESSMENT CRITERION 5

5. Tools are stored correctly, based on properties, application, manufacturer requirements and the supplier specification

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. Dimensions, scaling, scale drawings, slopes 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:

Specific Outcomes:

Set out trusses

Manufacture rafters and trusses

Construct trusses

Assessment Criteria:

Trusses are set out based on specification drawings

Timber is marked and cut, drilled and machined according to design

Trusses and rafter components are constructed according to specification drawings

Manufactured truss components are constructed into formwork according to specification drawings

Trusses are assembled in a plane conducive to avoiding damage to members

UNIT STANDARD CCFO WORKING

Work effectively with others, relates to the following:

All Specific Outcomes

Assessment Criteria:

Safety requirements are adhered to

Equipment and tools are used correctly and safely

Safe storage is ensured

UNIT STANDARD CCFO ORGANISING

Employ self management, relates to the following:

Specific Outcomes:

Set out trusses

Manufacture rafters and trusses

Assessment Criteria:

Allocated time frames are accurately determined and realistic

Allocated time frames are adhered to

UNIT STANDARD CCFO COLLECTING

Manage information, relates to the following:

All Specific Outcomes:

Assessment Criteria:

Trusses are set out based on specification drawings

Allocated time frames are accurately determined and realistic

Timber is marked and cut, drilled and machined according to design

Trusses and rafter components are constructed according to specification drawings

Manufactured truss components are constructed into formwork according to specification drawings

Materials are stored correctly, based on properties, application, and the supplier specification

Equipment is stored correctly, based on properties, application, manufacturer requirements, and the supplier specification

Tools are stored correctly, based on properties, application, manufacturer requirements and the supplier specification

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively, relates to the following:

All Specific Outcomes

Assessment Criteria:

Trusses are set out based on specification drawings

Allocated time frames are accurately determined and realistic

Timber is marked and cut, drilled and machined according to design

Trusses and rafter components are constructed according to specification drawings

Manufactured truss components are constructed into formwork according to specification drawings

Trusses are stored in the required place as per site requirements

Materials are stored correctly, based on properties, application, and the supplier specification

Equipment is stored correctly, based on properties, application, manufacturer requirements, and the supplier specification

Tools are stored correctly, based on properties, application, manufacturer requirements and the supplier specification

UNIT STANDARD CCFO SCIENCE

Demonstrate scientific and technological competence, relate to the following:

All Specific Outcomes

Assessment Criteria:

Trusses are set out based on specification drawings

Timber is marked and cut, drilled and machined according to design

Trusses and rafter components are constructed according to specification drawings

Joints are close-fitting, not forced into position (due to defects in the material), and out of plane eccentricities are kept to a minimum

Manufactured truss components are constructed into formwork according to specification drawings

Trusses are assembled in a plane conducive to avoiding damage to members

Materials are stored correctly, based on properties, application, and the supplier specification

Equipment is stored correctly, based on properties, application, manufacturer requirements, and the supplier specification

Tools are stored correctly, based on properties, application, manufacturer requirements and the supplier specification

UNIT STANDARD CCFO DEMONSTRATING

Understand contextual world-systems, relates to the following:

All Specific Outcomes

Assessment Criteria:

Allocated time frames are adhered to

Joints are close-fitting, not forced into position (due to defects in the material), and out of plane eccentricities are kept to a minimum

Trusses are assembled in a plane conducive to avoiding damage to members

Trusses are stored in the required place as per site requirements

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE
Core	24295	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

All qualifications and unit standards registered on the National Qualifications Framework are public property. Thus the only payment that can be made for them is for service and reproduction. It is illegal to sell this material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged as the source.