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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:**

Recommend material best suited for roof design

SAQA US ID	UNIT STANDARD TITLE			
263818	Recommend material best suited for roof design			
ORIGINATOR		REGISTERING PROVIDER		
SGB Forestry				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 01 - Agriculture and Nature Conservation			Forestry and Wood Technology	
ABET BAND	UNIT STANDARD TYPE	OLD NQF LEVEL	NEW NQF LEVEL	CREDITS
Undefined	Regular	Level 4	NQF Level 04	5
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Registered		2009-05-13	2012-05-13	SAQA 0181/09
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2013-05-13		2016-05-13		

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

A key output of roof estimators is recommending to customers, roof designers and manufacturers a bill of estimates of roof material. This requires knowledge of the material to be used, the manufacturing and quality process.

Learners credited with this Unit Standard are able to demonstrate an understanding of the manufacturer's responsibility for translating a roof and truss design into an actual roofing solution that is safe for the client, and manufactured in a cost effective manner for the fabricator.

To achieve this, they are able to apply an understanding of:

- Recommend material options for roof design.

- Prepare material by demonstrating an understanding of organisational and sector requirements.
- Demonstrate understanding of manufacturing tolerances.
- Describe manufacturing limitations.
- Conduct quality control as demanded by context.

This Unit Standard is intended to promote skills in the wood processing and construction fields in order to raise competence levels in the various industries served by informed and competent workers.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that learners are competent in:

- Communication and mathematical literacy at NQF Level 3 or an equivalent.

UNIT STANDARD RANGE

N/A

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Recommend material options for roof design as per roof design drawing.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Best suited structural material for the roof design is recommended as informed by variables at play.

ASSESSMENT CRITERION RANGE

- Cost.
- Affordability.
- Design.
- Quality.
- Functionality.

ASSESSMENT CRITERION 2

Timber with potential defects that may adversely affect roof design output is identified.

ASSESSMENT CRITERION 3

Appropriate connector specifications for the recommended structural material are identified for roof design.

ASSESSMENT CRITERION 4

Alternative structural material options are recommended for roof design.

SPECIFIC OUTCOME 2

Prepare material by demonstrating an understanding of organisational and sector requirements.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Concepts of cutting angles for roof material are explained.

ASSESSMENT CRITERION 2

Tape measure is used appropriately in determining the size of the structural material to be prepared.

ASSESSMENT CRITERION 3

Ability to read cutting bill is demonstrated in preparing structural material for the roof design.

SPECIFIC OUTCOME 3

Demonstrate understanding of manufacturing tolerances with respect to roof structure.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The concept of material tolerance in relation to roof structure is explained.

ASSESSMENT CRITERION 2

The concept of material tolerances with respect to roof design is explained.

ASSESSMENT CRITERION 3

The effect of gaps in joints of the roof structure is explained.

SPECIFIC OUTCOME 4

Describe manufacturing limitations in terms of roof structure.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Equipment specifications are explained in relation to roof design.

ASSESSMENT CRITERION 2

Equipment limitations are explained in terms of roof design.

SPECIFIC OUTCOME 5

Conduct quality control in respect of roof design estimation.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Quality control is conducted.

ASSESSMENT CRITERION RANGE

- Selection criteria for inspecting the quality of the grading of incoming material.
- Strength tests on products and of the quality of treatment of products.

ASSESSMENT CRITERION 2

Quality control is conducted to examine samples of material intended for roof structure.

ASSESSMENT CRITERION RANGE

The inspection procedures to examine samples for the characteristics determining the relevant prescribed quality.

ASSESSMENT CRITERION 3

The markings indicating the results of the inspections are demonstrated as per organisational standards.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

- Anyone assessing a learner or moderating the assessment of a learner against the unit standard must be registered as an assessor with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Any institution offering learning that will enable the achievement of this unit standard must be accredited as a provider with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Assessment and moderation of assessment will be overseen by the relevant Education, Training, Quality, Assurance (ETQA) Body, or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the ETQA's policies and guidelines for assessment and moderation.
- Moderation must include both internal and external moderation of assessments, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described in the associated unit standards.
- Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

Knowledge considered critical to the successful achievement of this unit is covered in the specific outcomes and assessment criteria.

UNIT STANDARD DEVELOPMENTAL OUTCOME

N/A

UNIT STANDARD LINKAGES

N/A

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

This will be achieved when the qualifying learner identifies site documents and their use.

UNIT STANDARD CCFO WORKING

This will be achieved when the qualifying learner works effectively with role players in recommending suitable and appropriate material for the desired roof structure.

UNIT STANDARD CCFO ORGANISING

This will be achieved when the qualifying learner applies own understanding of use of measuring tape and its implications for manufacturing of roof design solutions.

UNIT STANDARD CCFO COLLECTING

This will be achieved when the qualifying learner collects, analyses, organises and critically evaluates information on different material for roof structure with a view of recommending the best suited material for the roof structure.

UNIT STANDARD CCFO COMMUNICATING

This will be achieved when the qualifying learner communicates effectively using visual, mathematical

and/or language skills in recommending best suited structural material.

UNIT STANDARD CCFO DEMONSTRATING

This will be achieved when the qualifying learner understands the impact of quality control and tolerances for manufacturing production.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE
Core	66370	Further Education and Training Certificate: Roof Truss Technology	Level 4	NQF Level 04	Registered	2012-05-13

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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