



THE REPUBLIC OF KENYA

NATIONAL OCCUPATIONAL STANDARDS

FOR

CARPENTRY AND JOINERY ARTISAN

KNQF LEVEL 4

ISCED CODE: 0722 354B



TVET CDACC
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NAIROBI

CONSTRUCT TIMBER FLOORS AND PREFABRICATED BUILDINGS

UNIT CODE: CON/OS/CAJ/CR/06/4/B

UNIT DESCRIPTION

This unit describes the competences required to construct timber floors and prefabricated buildings. It entails interpreting structural drawing, selecting materials, tools and equipment, setting and constructing timber prefabricated structures, constructing timber floors and performing finishing activities.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Interpret structural drawing	1.1 Architectural/structural drawing interpreted based on building code 1.2 Measurements converted as required by the Architectural drawing 1.3 Symbols are identified and interpreted based on International technical drawing (ISO 128)
2. Select materials, tools and equipment	2.1 Cutting list of materials prepared as per the working drawing 2.2 Materials, tools and equipment selected and prepared as per the work place procedures 2.3 Exercised safety during handling of tools and equipment as per factories act 2.4 Observed safety during use of materials, tools and equipment
3. Set and construct timber prefabricated structures	3.1 Prefabricated structures identified as per the building code 3.2 Selected setting out materials, tools and equipment according to the job requirements 3.3 Set angles of the building as per the structural drawing

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
	3.4 Set out the prefabricated structure as per the engineer's specifications 3.5 Constructed the prefabricated panels based on the structural drawing 3.6 Transported the prefabricated panels to the site as per the owner's specifications 3.7 Joined and assembled the panels as per the structural drawing 3.8 Treated the panels with <i>wood preservatives</i> and fire retardants according to job requirements
4. Construct timber floors	4.1 Interpreted working drawing based on the architectural/ structural drawing specifications 4.2 Prepared material cutting list as per the working drawing 4.3 Prepared the materials, tools and equipment as per the job requirements 4.4 Set the timber floor as per the engineer's instructions 4.5 Applied suitable wood preservatives and fire retardants as per the job requirements
5. perform finishing activities.	5.1 Performed sanding as per the job requirements 5.2 Applied a coat of varnish as per the job requirements 5.3 Perform workplace housekeeping procedures as per work place procedures 5.4 Disposed waste as per the environment regulations

RANGE

Variable	Range
<ul style="list-style-type: none"> • Prefabricated structures may 	<ul style="list-style-type: none"> • Timber building

include but is not limited to:	
<ul style="list-style-type: none"> • Wood preservatives may include but is not limited to: 	<ul style="list-style-type: none"> • Oil borne • Water borne • Metallic salts

REQUIRED KNOWLEDGE

- Basic calculations
- Selection of materials
- Various types of timber
- Joining materials

SKILLS

- Interpretation of working drawing
- Handling of tools and equipments
- Measuring, cutting, marking skills

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Interpreted structural drawing accurately</p> <p>1.2 Prepared a good cutting list of materials as per the working drawing</p> <p>1.3 Selected materials, tools and equipment appropriately</p> <p>1.4 Set and constructed timber prefabricated structures</p> <p>1.5 Erected the timber prefabricated structure</p> <p>1.6 Constructed timber floors</p> <p>1.7 Was keen to observe safety during construction of timber floors</p> <p>1.8 Performed finishing activities.</p> <p>1.9 Performed housekeeping according workplace procedures</p>
2. Resource Implications	<p>The following resources should be provided:</p> <p>2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place</p> <p>2.2 Materials relevant to the proposed activity or tasks</p>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <p>3.1 Written Test</p> <p>3.2 Demonstration</p> <p>3.3 Practical assignment</p>

	3.4 Interview/Oral Questioning
4. Context of Assessment	<p>Competency may be assessed</p> <p>4.1 On the job</p> <p>4.2 off the job</p> <p>4.3 During industrial attachment</p>
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.