



**REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARDS  
FOR  
CARPENTRY AND JOINERY CRAFTSPERSON  
KNQF LEVEL 5**

**PROGRAMME CODE:0722 554B**



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# CONSTRUCT TIMBER FLOORS AND PREFABRICATED BUILDINGS

**UNIT CODE:** CON/OS/CAJ/CR/06/5/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

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Interpret structural drawing	1.1 Architectural drawing is interpreted based on building code 1.2 Measurements are 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 is prepared as per the working drawing 2.2 materials, tools and equipment are selected and prepared as per the work place procedures
3. Set and construct timber prefabricated structures	3.1 <b>Prefabricated structures</b> are 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 3.4 Set out the recipients of the prefabricated structure as per the engineer's specifications

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicized terms are elaborated in the Range)</i>
	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 <b><i>wood preservatives</i></b> and fire retardants according to job requirements
4. Construct timber floors	4.1 Interpreted working drawing based on the building code 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 Selected and applied given floor finish as per the owner's specification

**RANGE**

Variable	Range
1. Prefabricated structures may include but is not limited to:	<ul style="list-style-type: none"><li>• Timber building</li></ul>
2. Wood preservatives may include but is not limited to:	<ul style="list-style-type: none"><li>• Oil borne</li><li>• Water borne</li><li>• Metallic salts</li></ul>

**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> <ul style="list-style-type: none"> <li>1.1 Interpreted structural drawing correctly</li> <li>1.2 Selected materials, tools and equipment appropriately</li> <li>1.3 Set angles of the building accurately</li> <li>1.4 Was able to set out the recipients of the prefabricated structure</li> <li>1.5 Demonstrated ability to construct the prefabricated panels</li> <li>1.6 Sett and constructed timber prefabricated structures</li> <li>1.7 Erected the timber prefabricated structure correctly</li> <li>1.8 Set the timber floor as per the engineer's instructions</li> <li>1.9 Applied suitable wood preservatives and fire retardants</li> <li>1.10 Constructed timber floors correctly</li> <li>1.11 Demonstrated ability to perform finishing activities.</li> </ul>
2. Resource Implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Training/assessment workshops</li> <li>2.2 Construction tools and equipment</li> <li>2.3 Occupational Safety and health manuals</li> <li>2.4 Construction manuals</li> <li>2.5 Construction materials</li> <li>2.6 Qualified trainers</li> </ul>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Written Test</li> <li>3.2 Demonstration</li> <li>3.3 Practical assignment</li> <li>3.4 Interview/Oral Questioning</li> </ul>
4. Context of Assessment	<p>Competency may be assessed</p> <ul style="list-style-type: none"> <li>4.1 On job</li> <li>4.2 Off job</li> <li>4.3 During industrial attachment.</li> </ul>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>