



**THE REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARDS  
FOR**

**CARPENTRY AND JOINERY ARTISAN**

**KNQF LEVEL 4**

**ISCED CODE: 0722 354B**



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## CONSTRUCT FURNITURE ITEMS

**UNIT CODE: CON/OS/CAJ/CR/03/4/B**

### UNIT DESCRIPTION

This unit describes the competences required to construct furniture items. It involves interpreting working drawing, preparing construction materials, marking out product profile, cutting out product profile and performing fixing of the joints. It also includes performing finishing processes, examining quality of the finished product and performing workplace housekeeping.

### ELEMENTS AND PERFORMANCE CRITERIA

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Interpret working drawing	1.1 Working drawing is interpreted based on given furniture 1.2 Measurements are converted as required by the working drawing 1.3 Symbols are identified and interpreted based on International technical drawing (ISO 128)
2. Prepare construction materials	2.1 Identified types of furniture as per working drawing 2.2 Cutting list of materials is prepared as per the working drawing 2.3 <b>Materials, tools</b> , and equipment are selected and prepared as per the working drawing
3. Marking out product profile	3.1 Marking tools are identified as per the job requirements 3.2 Marking is carried out according to the working drawing 3.3 Safety and health is observed during marking out according to job requirements
4. Cut out product profile	4.1 Cutting out tools are identified as per the job requirements 4.2 Cutting out is carried out as per the working drawing 4.3 Safety is observed during cutting out according to job requirements

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicized terms are elaborated in the Range)</i>
5. Perform fixing of the joints	5.1 Trial fitting is done as per the working drawing specifications 5.2 Final assembling of the furniture is done as per the working drawing specification 5.3 Safety is observed during fixing of the joints
6. Perform finishing processes	6.1 Scrapping is performed as per job requirement 6.2 Sanding is done as per the job requirements 6.3 Staining is conducted according to job requirement 6.4 Painting/ varnishing is performed based on the manufacturer's instructions
7. Examining quality of the finished product	7.1 Examined finished product as per ISO 17637 and ISO 5817 standards 7.2 Recorded quality check results as per the workplace procedures
8. Performing workplace housekeeping.	8.1 <b><i>Housekeeping</i></b> is conducted as per workplace procedures

## RANGE

<b>Variable</b>	<b>Range</b>
1. Materials may include but is not limited to:	<ul style="list-style-type: none"> <li>• Plywood</li> <li>• Fibreboard</li> <li>• Block board</li> <li>• soft board</li> </ul>
2. Tools may include but is not limited to:	<ul style="list-style-type: none"> <li>• Marking tools</li> <li>• Measuring and testing tools</li> <li>• Driving tools</li> <li>• Boring tools</li> <li>• Cutting tools</li> <li>• Planning and shaping tools</li> <li>• Setting out tools</li> </ul>

Variable	Range
3. Housekeeping may include but is not limited to:	<ul style="list-style-type: none"> <li>• Cleaning</li> <li>• Clearing</li> <li>• Keep workplace tidy</li> </ul>

## REQUIRED KNOWLEDGE

- Types of timber
- Simple arithmetic calculations
- Carpentry and joinery tools
- Types of timber
- Furniture construction
- Construction dimensions
- Architectural drawing
- Examples of furniture items

## SKILLS

- Interpret working drawing
- Communication skills
- Design
- Computer literacy
- Planning
- Entrepreneurship 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 working drawing</li> <li>1.2 Prepared construction materials</li> <li>1.3 Marked out product profile accurately</li> <li>1.4 Cut out product profile appropriately</li> <li>1.5 Performed fixing of the joints</li> <li>1.6 Performed finishing processes neatly</li> <li>1.7 Examined quality of the finished product</li> <li>1.8 Performed workplace housekeeping according to job requirements</li> </ul>
2. Resource Implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place</li> </ul>

	2.2 Materials relevant to the proposed activity or tasks
3. Methods of Assessment	Competency may be assessed through: 3.1 Written Test 3.2 Demonstration 3.3 Practical assignment 3.4 Interview/Oral Questioning
4. Context of Assessment	Competency may be assessed 4.1 On-the-job 4.2 Off-the –job 4.3 During Industrial attachment
5. Guidance information for assessment	Holistic assessment with other units relevant to the building sector, workplace and job role is recommended.