



THE REPUBLIC OF KENYA

NATIONAL OCCUPATIONAL STANDARDS

FOR

CARPENTRY AND JOINERY ARTISAN

KNQF LEVEL 4

ISCED CODE: 0722 354B



TVET CDACC  
P.O BOX 15745-00100  
NAIROBI

## CONSTRUCT DOORS & DOOR FRAMES

UNIT CODE : CON/OS/CAJ/CR/01/4/B

### UNIT DESCRIPTION

This unit describes the competence required to construct doors and door frames. 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

ELEMENTS	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function	These are assessable statements which specify the required level of performance for each of the elements <i>(Bold terms are elaborated in the Range)</i>
1. Interpret working drawing	1.1 Working drawing interpreted based on architectural design 1.2 Measurements converted as required 1.3 Symbols are identified and interpreted based on International technical drawing (ISO 128) 1.4 Door opening identified as per the building code 1.5 Sketched and labelled types of battened door as per the type of the door 1.6 Sketched and labelled types of panelled and flush doors as per the type of door
2. Prepare Construction materials	2.1 Cutting list of materials prepared as per the working drawing 2.2 <b>Materials, tools and equipment</b> 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 is observed during marking out as per job requirements
4. Cut out product profile	4.1 Cutting out tools identified as per the job requirements 4.2 Cutting out is carried out as per the working drawing

<b>ELEMENTS</b> These describe the key outcomes which make up workplace function	<b>PERFORMANCE CRITERIA</b> These are assessable statements which specify the required level of performance for each of the elements <i>(Bold terms are elaborated in the Range)</i>
	<p>4.3 Safety is observed during cutting out as per job requirements</p> <p>4.4 Housekeeping practices are performed after cutting out product profile as per workplace procedures</p>
<p>5. Perform fixing of the joints</p>	<p>5.1 Trial fitting is done as per the working drawing specifications</p> <p>5.2 Final assembling of the door done as per the working drawing specification</p> <p>5.3 Door fixed in frame as per the drawing specification</p> <p>5.4 Safety is observed during fixing of the joints</p>
<p>6. Perform finishing process</p>	<p>6.1 Scrapping is performed as per job requirement</p> <p>6.2 Sanding is done as per the job requirements</p> <p>6.3 Staining conducted according to job requirement</p> <p>6.4 Painting/ varnishing performed based on the manufacturer's instructions</p>
<p>7. Examine quality of the finished product</p>	<p>7.1 Examined finished product as per ISO 17637 and ISO 5817 standards</p> <p>7.2 Recorded quality check results as per the workplace procedures</p>
<p>8. Perform workplace housekeeping</p>	<p>8.1 Housekeeping is conducted as per workplace procedures</p>

## RANGE

Variable	Range
<p>1. Materials may include but is not limited to:</p>	<ul style="list-style-type: none"> <li>• Hard wood</li> <li>• Soft wood</li> <li>• Manufactured boards</li> <li>• Iron mongery</li> </ul>
<p>2. Tools &amp; equipment may include but is not limited to:</p>	<ul style="list-style-type: none"> <li>• Planes</li> <li>• Square</li> <li>• Saws</li> <li>• Chisel saws</li> <li>• Claw hammer</li> <li>• Mallet</li> </ul>

Variable	Range
	<ul style="list-style-type: none"> <li>• Tape measure</li> <li>• Screw driver</li> </ul>

## REQUIRED KNOWLEDGE AND SKILLS

### Knowledge

- Construction dimensions
- Architectural drawing
- Local authority by-laws
- Building code
- Structural elements
- Codes of practice
- Basic arithmetic
- Measurement
- Building drawing
- Types of doors
- Methods of finishing processes
- Marking and cutting tools and equipments

### Skills

- Measurement
- Basic arithmetic
- Design
- Computer literacy
- planning

### 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 correctly</li> <li>1.2 Prepared construction materials appropriately</li> <li>1.3 Marked out a product profile accurately</li> <li>1.4 Cut out product profile suitably</li> <li>1.5 Was able to perform fixing of the joints</li> <li>1.6 Performed finishing processes accordingly</li> <li>1.7 Examined quality of the finished product</li> <li>1.8 Performed workplace housekeeping procedures as per workplace procedures</li> </ul>
-----------------------------------	---

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 Demonstration</p> <p>3.2 Practical assignment/project</p> <p>3.3 Interview/Oral Questioning</p> <p>3.4 Written</p>
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	<p>Holistic assessment with other units relevant to the carpentry and joinery sector workplace and job role is recommended.</p>