

CORE UNITS OF COMPETENCIES

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CONSTRUCT DOORS & DOOR FRAMES

UNIT CODE : CON/OS/CAJ/CR/01/5/A

UNIT DESCRIPTION

This unit describes the competence required to construct doors and door frames. It involves; interpreting working drawing, preparing construction materials, constructing basic doors, constructing special doors & door frames, constructing fire check doors & door frames, performing finishing processes, examine 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 building code 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 Choice of door type determined according to position/ properties required of the door
2. Prepare Construction materials	2.1 Cutting list of materials prepared as per the working drawing 2.2 Materials, tools and equipment selected and prepared as per the working drawing
3. construct basic doors and door frames	3.1 Marking tools are identified as per the job requirements 3.2 Marking is carried out according to the working drawing 3.3 Cutting out tools identified as per the job requirements 3.4 Cutting out joints is carried out as per the working drawing

ELEMENTS These describe the key outcomes which make up workplace function	PERFORMANCE CRITERIA 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>
	3.5 Trial fitting is done as per the working drawing specifications 3.6 Final assembling of the door is done as per the working drawing specification 3.7 Door is fixed in frame as per the drawing specification
4. Construct special doors & door frames	4.1 Marking tools are identified as per the job requirements 4.2 Marking is carried out according to the special shapes 4.3 Special cutting out tools are identified as per the given shapes specifications. 4.4 Cutting out joints is carried out as per the design specifications 4.5 Trial fitting is done as per the working drawing specifications 4.6 Final assembling of the door is done as per the working drawing specification 4.7 Door is fixed in frame as per the drawing specification
5. Construct fire check doors & door frames	5.1 Selected and prepared materials as per the job requirements 5.2 Marked and cut out joints as per working drawing specifications 5.3 Assembled the frame as per the working drawing specifications 5.4 Fixed the fire resisting materials as per Building code of Kenya 5.5 Fixed the face veneer on both sides as per the drawing specifications 5.6 Performed hipping all-round the door
Perform finishing processes 6.	1.1 Scrapping is performed as per job requirement 1.2 Sanding is done as per the job requirements

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>
	1.3 Staining is conducted according to job requirement 1.4 Painting/ varnishing is performed based on the manufacturer's instructions
7. Examine quality of the finished product	7.1 Examined finished product as per the job requirements 7.2 Recorded quality check results as per the work place procedures
8. Perform workplace Housekeeping	8.1 Housekeeping is conducted as per workplace procedures 8.2 Materials, tools and equipment are returned to the store as per work place procedures

RANGE

Variable	Range
1. Materials may include but is not limited to:	<ul style="list-style-type: none"> • Hard wood • Soft wood • Manufactured boards • Iron mongery
2. Tools & equipment may include but is not limited to:	<ul style="list-style-type: none"> • Planes • Square • Saws • Chisel saws • Claw hammer • Mallet • Tape measure • Screw driver
3. Housekeeping may include but is not limited to:	<ul style="list-style-type: none"> • Clearing • Protecting existing work • Keeping work area tidy • Cleaning

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
- Functions of doors
- Types of doors

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	Assessment requires evidence that the candidate: 1.1 Interpreted working drawing correctly 1.2 Prepared Construction materials 1.3 Demonstrated ability to construct basic doors 1.4 Constructed special doors & door frames 1.5 Constructed fire check doors & door frames 1.6 Performed finishing processes 1.7 Examined quality of the finished product
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	1.8 Perform workplace Housekeeping
2. Resource Implications	2.1 Specified tools & equipment for the course 2.2 Calculator
3. Methods of Assessment	Competency may be assessed through: 3.1 Demonstration 3.2 Practical assignment/project 3.3 Interview/Oral Questioning 3.4 Written
4. Context of Assessment	Competency may be assessed 4.1 On job 4.2 Off job 4.3 During Industrial Attachment
5. Guidance information for assessment	Holistic assessment with other units relevant to the carpentry and joinery sector workplace and job role is recommended.

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