



REPUBLIC OF KENYA

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

PROGRAMME CODE:0722 554B



**TVET CDACC
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CONSTRUCT FURNITURE ITEMS

UNIT CODE: CON/OS/CAJ/CR/03/5/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

ELEMENT	PERFORMANCE CRITERIA (<i>Bold and italicized terms are elaborated in the Range</i>)
1. Design/Interpret working drawing	1.1 Identified the <i>elements of design</i> for a given piece of furniture 1.2 Working drawing is <i>designed</i> as per the owner's specifications 1.3 Working drawing is interpreted based on the job requirements 1.4 Measurements are converted as required by the working drawing 1.5 Symbols are identified and interpreted based on International technical drawing (<i>ISO 128</i>)
2. Prepare Construction materials	2.1 Identified <i>types of furniture</i> as per the working drawing 2.2 Identified <i>hardware</i> for a given furniture 2.3 Cutting list of materials is prepared as per the working drawing 2.4 Materials, tools 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
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

ELEMENT	PERFORMANCE CRITERIA <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
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 6.5 Conducted upholstery in a given piece of furniture
7. examining quality of the finished product	7.1 Examined finished product as per job requirements 7.2 Recorded quality check results as per the work place procedures
8. performing workplace housekeeping.	8.1 Housekeeping is conducted as per workplace procedures 8.2 Materials, tools and equipment are returned to their respective stores according to work place procedures

RANGE

Variable	Range
1. Elements of design may include but is not limited to:	<ul style="list-style-type: none"> Efficiency Appearance
2. Design may include but is not limited to:	<ul style="list-style-type: none"> Shape Construction Appearance Function Aesthetics Operation
3. Types of furniture may include but is not limited to:	<ul style="list-style-type: none"> Church library
4. Hardware may include but is not limited to:	<ul style="list-style-type: none"> Caster wheels Name plates Hinges Locks Handles Stops Catches rails
5. Housekeeping may include but is not limited to:	<ul style="list-style-type: none"> Clearing Cleaning Keep work place tidy

REQUIRED KNOWLEDGE

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

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	Assessment requires evidence that the candidate: 1.1 Interpreted working drawing correctly 1.2 Prepared construction materials 1.3 Marked out product profile accurately 1.4 Was able to cut out product profile 1.5 Performed fixing of the joints accordingly 1.6 Performed finishing processes 1.7 Examined quality of the finished product 1.8 Performed workplace housekeeping appropriately
2. Resource Implications	2.1 Calculator 2.2 Internet 2.3 Training workshops 2.4 Construction tools and equipment 2.5 Occupational Safety and health manuals 2.6 Construction materials 2.7 Reference textbooks 2.8 Qualified trainers
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 job 4.2 Off 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.

