



THE REPUBLIC OF KENYA

COMPETENCY BASED CURRICULUM

FOR

CARPENTRY AND JOINERY

KNQF LEVEL 4

ISCED PROGRAM CODE: 0722 354B



TVET CDACC

P.O BOX 15745-00100

NAIROBI

FURNITURE ITEMS

UNIT CODE:CON/CU/CAJ/CR/03/4/B

Relationship to Occupational Standards

This unit addresses the unit of competency: Construct furniture items

Duration of Unit: 90 hours

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.

Summary of Learning Outcomes

1. Interpret working drawing
2. Prepare construction materials
3. Marking out product profile
4. Cut out product profile
5. Perform fixing of the joints
6. Perform finishing processes
7. Examining quality of the finished product
8. Performing workplace housekeeping.

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Interpret working drawing	<ul style="list-style-type: none">• Elevation• Sections• Dimensions• Scale• Symbols	<ul style="list-style-type: none">• Practical assignment• Oral/written

<p>2. Prepare Construction materials</p>	<ul style="list-style-type: none"> • Interpretation of working drawing • Examples of furniture items • Preparation of a cutting list • Types of construction materials <ul style="list-style-type: none"> ✓ Timber ✓ Ply wood ✓ Nails and screws ✓ Wood glue ✓ Sand paper • Uses and specifications of materials, tools and equipment • Safety Practices <ul style="list-style-type: none"> ✓ PPE ✓ Handling of tools, materials and equipment ✓ Good housekeeping 	<ul style="list-style-type: none"> • Practical assignment • Oral • Written
<p>3. Mark out product profile</p>	<ul style="list-style-type: none"> • Marking out tools <ul style="list-style-type: none"> ✓ Tape measure ✓ Try square ✓ Marking gauge ✓ Workshop rod • Marking out procedures <ul style="list-style-type: none"> ✓ Mark mortise ✓ Mark tenons ✓ Mark grooves ✓ Mark rebate ✓ Mark chamfer 	<ul style="list-style-type: none"> • Practical assignment • Oral • Written
<p>4. Cut out product profile</p>	<ul style="list-style-type: none"> • Types of cutting out tools <ul style="list-style-type: none"> ✓ Saws ✓ Chisels ✓ Mallet ✓ Planes • Cutting procedure <ul style="list-style-type: none"> ✓ Cut out mortises ✓ Cut out tenons ✓ Cut out the grooves ✓ Cut out rebates 	<ul style="list-style-type: none"> • Practical assignment • Oral • Written

	✓ Cut out chamfers	
5. Perform fitting of the joints	<ul style="list-style-type: none"> • Types of fitting tools <ul style="list-style-type: none"> ✓ Hammers ✓ Screw drivers ✓ Wood glue ✓ Nails ✓ Screws ✓ Clamps ✓ Dowels • Types of joints <ul style="list-style-type: none"> ✓ Mortise and tenon ✓ Tongue and grooves ✓ Scribes joints ✓ Rebate • Procedure of fitting joints <ul style="list-style-type: none"> ✓ Apply glue to tenons and mortises ✓ Fit tenons to mortises ✓ Fit battens to grooves ✓ Clamp the product ✓ Fix the joints ✓ Cut and fix the braces 	<ul style="list-style-type: none"> • Written • Oral • practical assignment
6. Perform finishing processes	<ul style="list-style-type: none"> • Types of finishing processes <ul style="list-style-type: none"> ✓ Wipe excessive glue ✓ Apply filler to any dent ✓ Sanding and applying coats of finishes • Fixing ironmongery /hardware <ul style="list-style-type: none"> ✓ Lock ✓ Tower bolts ✓ Door closers ✓ Door pullers 	<ul style="list-style-type: none"> • Oral • practical assignments • Written
7. Examine quality of the finished product	<ul style="list-style-type: none"> • Fitness and joint quality • Final appearance • Function-ability of the furniture 	<ul style="list-style-type: none"> • Oral • practical assignments

		<ul style="list-style-type: none"> • Written
8. Perform workplace Housekeeping	<ul style="list-style-type: none"> • Housekeeping procedures <ul style="list-style-type: none"> ✓ Gather off cuts ✓ Gather shavings/ saw dust ✓ Clean the floor return tools to the store 	<ul style="list-style-type: none"> • Oral • practical assignments • Written

Suggested Methods of Instruction

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Group discussions

Recommended Resources

- Carpentry tools
- Soil testing tools and kits
- Masonry tools
- Reference materials
- Occupational Safety and health manuals
- Overalls
- Gum boots
- First aid kits
- Safety goggles
- Helmets
- Gloves
- Dust coats