WINDOWS & WINDOW FRAMES

UNIT CODE:CON/CU/CAJ/CR/02/4/A

Relationship to Occupational Standards

This unit addresses the unit of competency: construct windows and window frames

Duration of Unit: 80 hours

Unit Description

This Unit describes the competencies required to construct windows and window 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

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Summary of Learning Outcomes

- 1. Interpret working drawing
- 2. Prepare construction materials
- 3. Mark out product profile
- 4. Cut out product profile
- 5. Perform fixing of the joints
- 6. Perform finishing processes
- 7. Examine quality of the finished product
- 8. Perform workplace Housekeeping

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome		Content	Suggested Assessment Methods	
1.	Interpret working drawing	 Elevation Sections Dimensions Scale Symbols 	 Practical assignment Oral/written tests 	
2.	Prepare Construction materials	 Interpretation of working drawing Types of windows Preparation of a cutting list Types of construction materials 	 Practical assignment Oral/ Written tests 	

3. Mark out product profile	 ✓ Timber ✓ Ply wood ✓ Nails and screws ✓ Wood glue ✓ Sand paper Uses and specifications of materials, tools and equipment Safety Practices ✓ PPE ✓ Handling of tools, materials and equipment ✓ Good housekeeping Marking out tools ✓ Tape measure ✓ Try square ✓ Marking gauge ✓ Workshop rod Marking out procedures ✓ Mark mortise ✓ Mark grooves ✓ Mark rebate ✓ Mark chamfer 	 Practical assignment Oral/ Written tests
4. Cut out product profile	 Types of cutting out tools Saws Chisels Mallet Planes Cutting procedure Cut out mortises Cut out mortises Cut out tenons Cut out the grooves Cut out rebates Cut out chamfers 	 Practical assignment Oral/ Written tests
5. Perform fitting of the joints	 Types of fitting tools ✓ Hammers ✓ Screw drivers ✓ Wood glue 	Written testsOral tests

	 ✓ Nails ✓ Screws ✓ Clamps ✓ Dowels Types of joints ✓ Mortise and tenon ✓ Tongue and grooves ✓ Scribes joints ✓ Rebate Procedure of fitting joints ✓ Apply glue to tenons and mortises ✓ Fit tenons to mortises ✓ Fit battens to grooves ✓ Fit stiles ✓ Clamp the window ✓ Fix the joints ✓ Cut and fix the braces 	• practical assignment
6. Perform finishing processes	 Types of finishing processes ✓ Wipe excessive glue ✓ Apply filler to any dent ✓ Sanding and applying coat of varnish Hanging window in the frame Fixing ironmongery /hardware ✓ Lock ✓ Tower bolts ✓ Fasteners ✓ Stays ✓ Hooks 	 Oral assignment practical assignments Written tests

7.	Examine quality of the finished product	 Fitness and joint quality Final appearance Function-ability of the door 	•	Practical assignments Oral/ written tests
8.	Perform workplace Housekeeping	 Housekeeping procedures Gather off cuts Gather shavings/ saw dust Clean the floor return tools to the store 	•	Practical assignments Oral/ written

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Suggested Methods of Instruction

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

Recommended Resources

- Carpentry and joinery hand tools
 - ✓ Saws
 - ✓ Hammers
 - ✓ Planes
 - ✓ Gauges
 - ✓ Chisels
 - ✓ Squares
 - ✓ Tape measure
- Codes of practice
- Reference books
- Timber
- Screws
- Nails
- Wood glue
- Varnish

- dust coat
- First aid kits
- Overalls
- Gum boots
- Safety goggles
- Helmets
- Gloves

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