

Assessment Evidence Guide

For

**Woodworks
(Carpentry Technician)
Level-3**

(Summative Assessment)



**National Vocational & Technical Training
Commission Islamabad**

Instruction Sheet for the Candidate

Qualification	National Competency Standards Level-3 for Woodworks “Carpentry Technician”
Competency Standard	0722-W&C-08 Prepare tools and equipment 0722-W&C-09 Operate basic wood work machinery 0722-W&C-10 Perform Basic Technical Drawing 0722-W&C-11 Select the Material for woodwork job 0722-W&C-12 Prepare a woodwork job 0722-W&C-13 Perform Cutting Operations 0722-W&C-14 Perform Shaping / Profiling Operations 0722-W&C-15 Perform Carving Operations 0722-W&C-16 Assemble the job 0722-W&C-17 Perform finishing of job 0722-W&C-18 Inspect quality of the product
Purpose of Assessment	Summative Assessment
Candidate Details	Name _____ Registration/Roll Number _____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 08 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Prepare a wooden side table as per given dimensions and specifications (Annex-I). The trainee is expected to complete the job with proper joinery work, sanding and finishing.
Time: 08Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	Prepare a wooden side table as per given dimensions and specifications (Annex-I). The trainee is expected to complete the job with proper joinery work, sanding and finishing

	<ol style="list-style-type: none">1. Interpret measuring units used in working drawing2. Interpret dimensions for various components of job3. Identify types of engineered/natural wood.4. Select the hardware as per job requirement.5. Identify the type of finishing materials as per job6. Check the circular saw blade for sharpening7. Check thickness planner blade for sharpening8. Check planner blade for sharpness9. Check handsaw for sharpness10. Wear appropriate PPE's (personal protective equipment's)11. Check the machine connectivity/functions, fixtures and safety guards12. Operate circular saw machine13. Perform surface planner14. Perform Thickness planner15. Apply adhesion to components16. Perform clamping of job assembly17. Perform nailing as per job requirement18. Assemble components of job19. Perform fixing of profile beading/patti20. Perform surface sanding21. Perform polish work as per specifications22. Inspect dimension and angles of product23. Inspect joint flushing of woodwork24. Inspect strength of woodwork
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Assessors Judgment Guide

Qualification	National Competency Standards Level-3 for Woodworks "Carpentry Technician"
Competency Standard	0722-W&C-08 Prepare tools and equipment 0722-W&C-09 Operate basic wood work machinery 0722-W&C-10 Perform Basic Technical Drawing 0722-W&C-11 Select the Material for woodwork job 0722-W&C-12 Prepare a woodwork job 0722-W&C-13 Perform Cutting Operations 0722-W&C-14 Perform Shaping / Profiling Operations 0722-W&C-15 Perform Carving Operations 0722-W&C-16 Assemble the job 0722-W&C-17 Perform finishing of job 0722-W&C-18 Inspect quality of the product
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment	✓	✓					
Other Requirement							

Observation Checklist

Assessment Task	<ul style="list-style-type: none"> Prepare a wooden side table as per given dimensions and specifications (Annex-I). The trainee is expected to complete the job with proper joinery work, sanding and finishing. 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Interpret measuring units used in working drawing			
2.	Interpret dimensions for various components of job			
3.	Identify types of engineered/natural wood.			
4.	Select the hardware as per job requirement.			
5.	Identify the type of finishing materials as per job			
6.	Check the circular saw blade for sharpening			
7.	Check thickness planner blade for sharpening			
8.	Check planner blade for sharpness			
9.	Check handsaw for sharpness			
10.	Wear appropriate PPE's			
11.	Check the machine connectivity/functions, fixtures and safety guards			
12.	Operate circular saw machine			
13.	Perform surface planner			
14.	Perform Thickness planner			
15.	Apply adhesion to components			
16.	Perform clamping of job assembly			
17.	Perform nailing as per job requirement			

18.	Assemble components of job			
19.	Perform fixing of profile beading/patti			
20.	Perform surface sanding			
21.	Perform polish work as per specifications			
22.	Inspect dimension and angles of product			
23.	Inspect joint flushing of woodwork			
24.	Inspect strength of woodwork			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	National Competency Standards Level-3 for Woodworks “Carpentry Technician”
Competency Standard	0722-W&C-08 Prepare tools and equipment 0722-W&C-09 Operate basic wood work machinery 0722-W&C-10 Perform Basic Technical Drawing 0722-W&C-11 Select the Material for woodwork job 0722-W&C-12 Prepare a woodwork job 0722-W&C-13 Perform Cutting Operations 0722-W&C-14 Perform Shaping / Profiling Operations 0722-W&C-15 Perform Carving Operations 0722-W&C-16 Assemble the job 0722-W&C-17 Perform finishing of job 0722-W&C-18 Inspect quality of the product
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

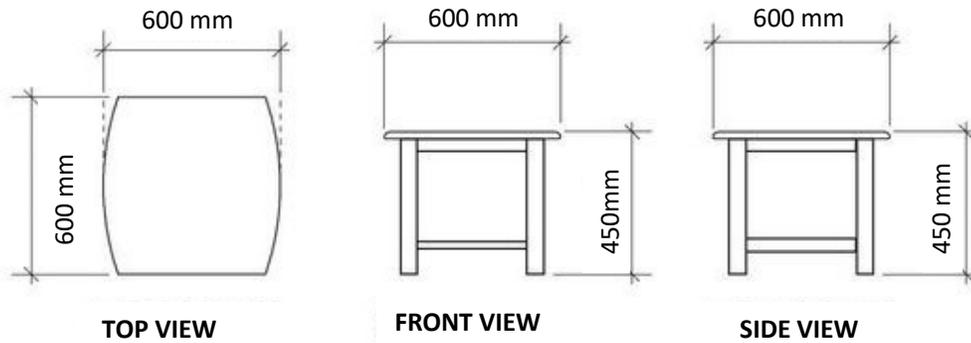
Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	How to identify if blade needs to be replaced? 		
2.	Enlist three finishing materials commonly used in wood work 		
3.	What are three types of lines used in drawing? 		
4.	What are common types of wood used in woodwork (name any three) 		
5.	What is manufacturing process of chip-board? 		

6.	Enlist any four types of clamps.		
7.	Define procedure for making Tenon on spindle moulder machine.		
8.	Enlist PPES (personal protective equipment's) for perform carving.		
9.	Why pre-assembling is required for wood working?		
10.	How to prepare the wood surface for finishing?		

Feedback to the Candidate

Candidate's Signature _____ **Assessor's Signature** _____



QUESTION:1 Prepare the side table as per given dimensions:

Dimensions:

Sr.	Component	Dimension
1	Top	600x600x25mm
2	Legs	425x50x50 mm
3	Side rails	550x50x25 mm
4	Center rail	576x50x25 mm

Specifications:

Sr.	Component	Material
1	Solid wooden top/lamination top	Engineered wood (MDF, Plywood etc), lamination sheet
2	Legs and rails	Solid wood (Kail wood, deodar etc)
3	Finishing	Transparent Polish (lacquer)
4	Adhesive	German glue / Mowlith glue
5	Hardware	nails

Knowledge Assessment-Answers

1.	<p>How to identify if blade needs to be replaced?</p> <p>Chipped teeth or rounded edges are sure signs that your blade needs to be replaced or sharpened. It is very important that the blade is sharpened as soon as visible saw blade deterioration occurs</p>
2.	<p>Enlist three finishing materials commonly used in wood work</p> <ul style="list-style-type: none"> • Sand paper (different grit) • Premier • Paint • Sealer • Color matching • Lacquer • Thinner • Varnish
3.	<p>What are three types of lines used in drawing?</p> <p>Types of lines used in drawings are as under</p> <ol style="list-style-type: none"> 1. Straight 2. Dotted 3. Dashed 4. Curved
4.	<p>What are common types of wood used in woodwork (name any three)</p> <p>Common types of wood used for woodwork are mentioned as under:</p> <ol style="list-style-type: none"> 1. Sheham 2. Deodar 3. Mahogany 4. Teek wood 5. Partal wood 6. Kail 7. Yellow pine 8. Beech wood
5.	<p>What is manufacturing process of chip-board?</p>

	Chip-board is manufactured by mixing particles or flakes of wood or jute-stick together with a resin and forming the mixture into a sheet.
6..	<p>Enlist any four types of clamps.</p> <ol style="list-style-type: none"> 1. Hand screw clamp 2. Corner clamp 3. G and C clamps 4. Rope clamp 5. sash bar clamp 6. Bench clamp 7. Miter clamp
7.	<p>Define procedure for making Tenon on spindle moulder machine.</p> <ol style="list-style-type: none"> 1. Mark wooden piece for making tenon 2. Select the required cutter 3. Fix the cutter on spindle 4. Tight the nut 5. Adjust the machine for making tenon 6. Apply jigs and fixture 7. Perform cutting process
8.	<p>Enlist PPES (personal protective equipment's) for perform carving.</p> <ol style="list-style-type: none"> 1. Straight gouges (different shapes) 2. Straight chisel 3. Vernier caliper 4. Mallets 5. Steel ruler 6. Pencil
9.	<p>Why pre-assembling is required for wood working?</p> <p>Pre-assembling is required to check the dimensions, angles and flushing of joints</p>

10.	<p>How to prepare the wood surface for finishing?</p> <ol style="list-style-type: none">1. Rough sanding (100-120 grit sand paper)2. Final sanding (220-240 grit sand paper)3. Buff finishing
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