

Assessment Evidence Guide

For

Woodworks
(Carpentry Supervisor/Foreman)
Level-4

(Formative Assessment)



**National Vocational & Technical Training
Commission Islamabad**

Instruction Sheet for the Candidate

Qualification	National Competency Standards Level-4 for Woodworks “Carpentry Supervisor/ Foreman”
Competency Standard	0722-W&C-20 Operate Advance Woodwork Machinery
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____
	Registration/Roll Number_____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Operate high speed router • Operate chain mortise • Operate double end cutter machine • Operate pendulum saw • Operate multiple rips saw • Operate cross cut saw machine • Operate trolley saw • Operate multi head boring machine • Operate wood turning lathe • Operate surface Sanding Machine • Operate edge sanding machine
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Operate high speed router</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Fix the safety guard as per requirement. 3. Set the cutter in machine for required profile. 4. Set the sharpness of tools. 5. Set the templates as per job. 6. Place the work piece on the machine. 7. Adjust the cutter depth. 8. Perform the routing process

	<p>Operate chain mortise</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the Chain as per required mortise. 3. Fixed the chain in the machine. 4. Select the depth of chain. 5. Clamp work piece on machine table. 6. Perform the mortise process <p>Operate double end cutting machine</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines 2. Select the saw blade as per job material. 3. Fix the saw blade with riving knives. 4. Set the machine for the required measurement. 5. Perform test cutting. 6. Check the size of work piece before final cutting. 7. Perform the final cutting process. 8. Check the size of work piece after final cutting. <p>Operate pendulum saw</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select and fixed the blade. 3. Adjust the stopper as per required length. 4. Place the planks on the machine track bars. 5. Cut the end of the planks. 6. Place stopper and cut planks as per requirement. <p>Operate multiple rips saw</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the saw blades for job. 3. Adjust the fence as per required width. 4. Adjust the machine for planks thickness. 5. Perform cutting process. <p>Operate cross cut saw machine</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the saw blades. 3. Place work piece on machine table. 4. Adjust the stopper as per required length. 5. Perform cutting process.
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	<p>Operate trolley saw</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Physical inspection, sharpness and joint of the blade 3. Adjust the log on the trolley machine track. 4. Clump the log. 5. Adjust the blade as per required thickness. 6. Perform cutting. <p>Operate multi head boring machine</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the bits as per required dia. 3. Set the boring head as per drawing. 4. Adjust the machine bed as per work piece. 5. Perform boring. 6. Check the work piece after pre fixing. <p>Operate wood turning lathe</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the gouge chisels as per job requirement. 3. Set the machine chuck/face plate/center as per job requirement to hold the work piece. 4. Adjust the tool post for turning. 5. Start wood turning as per sequence 6. Perform the wood turning as per design. <p>Operate surface Sanding Machine</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the sanding belt / grid as per requirement. 3. Adjust the machine bed as per required thickness. 4. Perform sanding. <p>Operate edge sanding machine</p> <ol style="list-style-type: none"> 1. Follow the safety precautions of machines. 2. Select the sanding belt / grid as per requirement. 3. Adjust the machine bed as per required thickness. 4. Perform edge sanding. 5. Check the work piece edge after sanding.
Portfolios	Portfolios required at the time of assessment (if any)

Assessors Judgment Guide

Qualification	National Competency Standards Level-4 for Woodworks “Carpentry Supervisor/ Foreman”
Competency Standard	0722-W&C-20 Operate Advance Woodwork Machinery
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-between; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> 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">• Operate high speed router• Operate chain mortise• Operate double end cutter machine• Operate pendulum saw• Operate multiple rips saw• Operate cross cut saw machine• Operate trolley saw• Operate multi head boring machine• Operate wood turning lathe• Operate surface Sanding Machine• Operate edge sanding machine				
	During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
	1.	Follow the safety precautions of machines.			
	2.	Fix the safety guard before starting operation.			
	3.	Set the tools in machine for required profile.			
	4.	Set the sharpness of tools.			
	5.	Set the templates as per job.			
	6.	Place the work piece on the machine.			
	7.	Adjust the cutter depth.			
	8.	Perform the routing process			
9.	Follow the safety precautions of machines.				
10.	Select the Chain as per required mortise.				
11.	Fixed the chain in the machine.				
12.	Select the depth of chain.				
13.	Clamp work piece on machine table.				

14.	Perform the mortise process.			
15.	Follow the safety precautions of machines			
16.	Select the saw blade as per material.			
17.	Fix the saw blade with riving knives.			
18.	Set the machine for the required measurement.			
19.	Perform the cutting process.			
20.	Check the size of work piece after cutting.			
21.	Follow the safety precautions of machines.			
22.	Select and fixed the blade.			
23.	Adjust the stopper as per required length.			
24.	Place the planks on the machine track bars.			
25.	Cut the end of the planks.			
26.	Place stopper and cut planks as per requirement.			
27.	Follow the safety precautions of machines.			
28.	Select the saw blades for job.			
29.	Adjust the fence as per required width.			
30.	Adjust the machine for planks thickness.			
31.	Perform cutting process.			
32.	Follow the safety precautions of machines.			
33.	Select the saw blades.			
34.	Place work piece on machine table.			
35.	Adjust the stopper as per required length.			

36.	Perform cutting process.			
37.	Follow the safety precautions of machines.			
38.	Check the sharpness and joint of the blade			
39.	Adjust the log on the trolley machine track.			
40.	Clump the log.			
41.	Adjust the blade as per required thickness.			
42.	Perform cutting.			
43.	Follow the safety precautions of machines.			
44.	Select the bits as per required dia.			
45.	Set the boring head as per drawing.			
46.	Adjust the machine bed as per work piece.			
47.	Perform boring.			
48.	Check the work piece after pre fixing.			
49.	Follow the safety precautions of machines.			
50.	Select the knives and sharpness as per requirement.			
51.	Set the machine chucks for hold the work piece.			
52.	Adjust the tool in tool post for cutting.			
53.	Perform the wood turning as per design.			
54.	Follow the safety precautions of machines.			
55.	Select the sanding belt / grid as per requirement.			
56.	Adjust the machine bed as per required thickness.			
57.	Perform sanding.			

58.	Follow the safety precautions of machines.			
59.	Select the sanding belt / grid as per requirement.			
60.	Adjust the machine bed as per required thickness.			
61.	Check the work piece edge after sanding.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	National Competency Standards Level-4 for Woodworks "Carpentry Supervisor/ Foreman"
Competency Standard	0722-W&C-20 Operate Advance Woodwork Machinery
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> 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.	Enlist essential personal protective equipment.		
2.	What is the safe speed limit of router?		

3.	What are the types of wood turning lath machine?		

Feedback to the Candidate	
Candidate's Signature _____	Assessor's Signature _____

Knowledge Assessment - Answers

1.	<p>Enlist essential personal protective equipment.</p> <ul style="list-style-type: none"> • Hand Gloves • Safety Goggles OR Face Shield • Safety Shoes • Safety coverall • Ear plug / Head phone
2.	<p>What is the safe speed limit of router?</p> <ul style="list-style-type: none"> • 18000 RPM for bit size of 1-2 inch • 16000 RPM for bit size of 2-2.5 inch • 12000 RPM for bit size of 3 and greater than 3 inches
3.	<p>What are the types of wood turning lath machine?</p> <ol style="list-style-type: none"> 1. Centre Wood Lathe 2. Bench Wood Lathe 3. Vertical Wood Lathe 4. Turret Wood Lathe. 5. Automatic Wood Lathe 6. Copying Wood Lathe 7. CNC Wood Lathe.