

Assessment Evidence Guide

For

“Assistant Pattern Maker”

Level-2

Module name
(Formative Assessment)

8th -12th March 2021



National Vocational & Technical
Training Commission

Title of Qualification: Assistant Pattern Maker	CS Code:	Level: 2	Version: 01
Competency Standard Title: Manufacture Wooden Pattern (make a pattern for casting a pipe OD 50mm, ID 25mm and L 100mm)	Assessment Date (DD/MM/YY): Assessment Time: 2 hours		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):</p> <p>Assessment Task 1: Candidate is required to: Prepare layout of wood pattern</p> <p>Assessment Task 2: Candidate is required to: Construct wood pattern using lathe machine</p> <p>And complete:</p> <ol style="list-style-type: none"> 1. Knowledge assessment test (Written or Oral) 2. Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Assessment Task 1</p> <p>P1. Get a 60mm Deodar wood piece of 160mm length.</p> <p>P2. Calculate pattern parameters(angles, tapers, clearances and shrinkage)</p> <p>P3. Add allowances (shrinkage, machining, draft,) as required</p> <p>P4. Select appropriate timber/composites for pattern layout as per specifications</p> <p>P5. Add core prints, loose piece pattern in layout as per requirements</p> <p>P6. Mark Top, Bottom, Side, and elevation view on layout as per given drawing and dimension.</p> <p>P7. Cut the extra material using appropriate cutting tools</p> <p>P8. Use appropriate tool for required job (drilling, cutting tapping, flat, round edges)</p>

	Assessment Task 2 P1. Assemble parts of pattern P2. Mark material and develop construction as per specifications P3. Utilize appropriate hand held and power tools P4. Produce pattern components according to size and shape P5. Identify permanent joint use Glue, Nails P6. Identify temporary joints use dowel pins P7. Assemble the pattern symmetrically
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Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the 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:

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							

Each Assessment Task (with performance criteria)				
Assessment Task 1		Description of assessment task 1		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
	P1. Get a 60mm Deodar wood piece of 160mm length.			
	P2. Calculate pattern parameters(angles, tapers, clearances and shrinkage)			
	P3. Add allowances (shrinkage, machining, draft,) as required			
	P4. Select appropriate timber/composites for pattern layout as per specifications			
	P5. Add core prints, loose piece pattern in layout as per requirements			
	P6. Cut the material using appropriate cutting tools extra			
	P7. Use appropriate tool for required job (drilling, cutting tapping, flat, round edges)			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Description of assessment task 2		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
	P1. Assemble parts of pattern			
	P2. Mark material and develop construction as per specifications			
	P3. Utilize appropriate hand held and power tools			
	P4. Produce pattern components according to size and shape			
	P5. Identify permanent joint use Glue, Nails			
	P6. Identify temporary joints use dowel pins			
	P7. Assemble the pattern symmetrically			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Title of Qualification: Assistant Pattern Maker	CS Code:	Level:	Version: 01
Competency Standard Title: Manufacture Wooden Pattern (make a pattern for casting a pipe OD 50mm, ID 25mm and L 100mm)	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Registration/Roll Number: Candidate Signature:
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Written Assessment Outcome	COMPETENT <input type="checkbox"/>	NOT YET COMPETENT <input type="checkbox"/>
	Name of the Assessor: Assessor's code:	
	Signature of the Assessor:	

Title of Qualification: Assistant Pattern Maker	CS Code:	Level:	Version: 01
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. Define wood work lathe	<ul style="list-style-type: none"> they are used to cut, sand, drill, face, turn and deform wooden work pieces
2. Name the material used for pattern making	<ul style="list-style-type: none"> wood metal plastic plaster wax
3. Name metallic materials for pattern making.	<ul style="list-style-type: none"> Cast iron Brass and bronze Aluminum and alloys
4. What are patterns in casting	<ul style="list-style-type: none"> In casting, a pattern is a replica of the object to be cast

