

Assessment Evidence Guide

For

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Level-2

Module name
(Formative Assessment)

8th-12th March 2021



**National Vocational & Technical
Training Commission**

Title of Qualification: Molder-II	CS Code: 	Level:2 	Version:01
Competency Standard Title: Operate molding machine	Assessment Date (DD/MM/YY): Assessment Time: 		

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: Operate Muller mixture machine</p> <p>Assessment Task 2: Candidate is required to: Operate Jolt machine</p> <p>Assessment Task 3: Candidate is required to: Operate squeeze machine</p> <p>Assessment Task 4: Candidate is required to: Operate Jolt Squeeze Machine</p> <p>And complete:</p> <ol style="list-style-type: none"> Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
	<p>Assessment Task 1</p> <p>P1. Add sand in Muller mixture machine as required</p> <p>P2. Add water in Muller mixture machine as required</p> <p>P3. Add additives (binders) as required</p> <p>P4. Operate the machine as per SOP</p> <p>P5. Practice standard health and safety procedures</p> <p>P6. Unload the materials from machine</p>

	<p>Assessment Task 2</p> <ul style="list-style-type: none"> P1. Place the mold box on the surface of machine table P2. Place the pattern in mold box on the surface of machine table P3. Fill sand in the mold box on the surface of machine table P4. Perform jolting operation P5. Remove the mold from the machine P6. Operate the machine as per SOP P7. Practice standard health and safety procedures
	<p>Assessment Task 3</p> <ul style="list-style-type: none"> P1. sand in mold P2. Remove the mold from the machine P3. Operate the machine as per SOP P4. Practice standard health and safety procedures P5. Place the mold box on the surface of machine table P6. Place the pattern in mold box on the surface of machine table P7. Fill sand in the mold box on the surface of machine table P8. Align the plate/rubber frame diaphragm with mold upper surface P9. Apply pneumatic pressure on the surface of the loose
	<p>Assessment Task 4</p> <ul style="list-style-type: none"> P1. Assemble the match plate pattern P2. Place the assembled pattern on machine surface P3. Place the drag upside P4. Fill the drag with sand P5. Perform machine as per SOP P6. Rollover the assembled mold using hand P7. Fill the cope with the sand P8. Perform machine as per SOP P9. Perform the vibrating operation P10. Remove the mold from the machine P11. Practice standard health and safety procedures

Continued on following page

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
	1. Add sand in Muller mixture machine as required			
	2. Add water in Muller mixture machine as required			
	3. Add additives (binders) as required			
	4. Operate the machine as per SOP			
	5. Practice standard health and safety procedures			
	6. Unload the materials from machine			
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
	1. Place the mold box on the surface of machine table			
	2. Place the pattern in mold box on the surface of machine table			
	3. Fill sand in the mold box on the surface of machine table			
	4. Perform jolting operation			
	5. Remove the mold from the machine			
	6. Operate the machine as per SOP			
	7. Practice standard health and safety procedures			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Description of assessment task 3		
During the practical assessment, candidate demonstrated the following:		Y es	No	Remarks
	1. sand in mold			
	2. Remove the mold from the machine			
	3. Operate the machine as per SOP			
	4. Practice standard health and safety procedures			
	5. Place the mold box on the surface of machine table			
	6. Place the pattern in mold box on the surface of machine table			
	7. Fill sand in the mold box on the surface of machine table			
	8. Align the plate/rubber frame diaphragm with mold upper surface			
	9. Apply pneumatic pressure on the surface of the loose			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 4		Description of assessment task 4		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
	1. Assemble the match plate pattern			
	2. Place the assembled pattern on machine surface			
	3. Place the drag upside			
	4. Fill the drag with sand			
	5. Perform machine as per SOP			
	6. Rollover the assembled mold using hand			
	7. Fill the cope with the sand			
	8. Perform machine as per SOP			
	9. Perform the vibrating operation			
	10. Remove the mold from the machine			
	11. Practice standard health and safety procedures			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Title of Qualification: Molder-II	CS Code:	Level:2	Version: 01
Competency Standard Title: Operate molding machine	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:
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: Molder-II	CS Code: 	Level: 2	Version: 01
Competency Standard Title: Operate molding machine	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
What is the function of Muller machine?	The function of Muller machine is to mix sand and water to prepare molding sand. Any other additive can also be added.
What is the function of Jolting operation in molding machine?	Jolting operation is used to ram and compress sand in mold.
Why we squeeze loose sand around pattern in coup and drag?	In squeezing operation, molding sand is compressed by pneumatic, hydraulic or mechanical press in the mold.
What is the purpose of vibration operation in mold making machine?	Vibration operation makes the loose molding sand compact and subsequently uniform surface finish is attained.
What are the advantages of using molding machine over hand molding method?	Using molding machine is less labor-intensive; require comparatively less skill and increases production rate.

Question	Candidate's answer
1.	
2.	