

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: Continuous casting machine (CCM) operator	CS Code:	Level:4	Version:01
Competency Standard Title: 2 Prepare tundish for casting	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 Prepare lining of heat resistance board</p> <p>Assessment Task 2: Candidate is required to: Install fire bricks lining</p> <p>Assessment Task 3: Candidate is required to: Install tundish on CCM</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. Place tundish nozzles at designated points</p> <p>P2. Carry out pre-heating of tundish shell</p> <p>P3. Cut heat resistance board pieces as per requirement</p> <p>P4. Install heat resistance board cuttings in tundish without leaving any gap between the pieces</p> <p>P5. Perform heating/drying of installed heat resistance board lining</p>

	Assessment Task 2 P6. Carry out stacking of fire bricks along the walls and base of tundish shell P7. Perform repairing of tundish and nozzles with refractory clay P8. Carry out the post heating of tundish
	Assessment Task 3 P9. Carry out lifting of tundish with over head crane P10. Place the tundish 80-90 feet above the ground level on top of casting machine P11. Carryout centering of tundish trolley through motor
	Portfolios required at the time of assessment (if any) for

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
	P1. Place tundish nozzles at designated points			
	P2. Carry out pre-heating of tundish shell			
	P3. Cut heat resistance board pieces as per requirement			
	P4. Install heat resistance board cuttings in tundish without leaving any gap between the pieces			
	P5. Perform heating/drying of installed heat resistance board lining			
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
	P6. Carry out the post heating of tundish			
	P7. Carry out stacking of fire bricks along the walls and base of tundish shell			
	P8. Perform repairing of tundish and nozzles with refractory clay			
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:		Yes	No	Remarks
	P9. Carry out lifting of tundish with over head crane			
	P10. Place the tundish 80-90 feet above the ground level on top of casting machine			
	P11. Carryout centering of tundish trolley through motor			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Title of Qualification: Continuous casting machine (CCM) operator	CS Code:	Level:	Version: 01
Competency Standard Title: Prepare tundish for casting	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:
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Title of Qualification: Continuous casting machine (CCM) operator	CS Code: 	Level: 	Version: 01
Competency Standard Title: Prepare tundish for casting	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is the use of tundish in steel making?	In continuous casting of steel, a tundish traditionally refers to an intermediate vessel placed between the ladle and the mold, designed to supply and distribute molten steel to different continuous casting molds at a near constant rate.
2. What happens in the tundish?	The main functions of the tundish are to be a steel reservoir between the ladle and the mold
3. What is Tundishboard?	Tundish Boards are the disposable boards used to form an inner lining for continuous casting tundishes.
4. types of refractory lining of tundish	There are several tundish refractory lining practices which are in use. These include (i) brick lining, (ii) gunnable lining, (iii) tundish board lining, (iv) sprayable tundish lining, and (v) dry tundish lining.
1.	
2.	
3.	

Question	Candidate's answer
4.	