

Assessment Evidence Guide

For

“Fettling Operator”

Level-2

Module name
(Formative Assessment)

8th -12th March 2021



National Vocational & Technical
Training Commission

Title of Qualification: Fettling Operator	CS Code:	Level: 2	Version: 01
Competency Standard Title: Fettle and trim metal casting	Assessment Date (DD/MM/YY): Assessment Time: 1 hour		

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: Carry out safety practices for fettling operations</p> <p>Assessment Task 2: Candidate is required to: Select correct tool and equipment</p> <p>Assessment Task 3: Candidate is required to: Fettle excess metal from cast part</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> <ul style="list-style-type: none"> • Ensure personal protective equipment(PPE) as per job requirement • Handle cast part as per SOP • Maintain balance position of cast part during lifting to avoid any incident • Ensure safe workplace for fettling process

	Assessment Task 2 <ul style="list-style-type: none"> • Select appropriate hand held tools and power tools for removing excess material from casting • Select appropriate repairing tool • Select appropriate hand and power tool for cutting and grinding • Identify appropriate equipment for surface cleaning
	Assessment Task 3 <ul style="list-style-type: none"> • Perform visual inspection to identify excess material for removal process • Mark excess material area for removal process • Fettle excess metal (runners, risers and flashing) as per standard operating procedures. • Verify the required specification after fettling process of excess metal • Record and report the casting defects as per standard operating procedures.
	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
1.	Ensure personal protective equipment(PPE) as per job requirement			
2.	Handle cast part as per SOP			
3.	Maintain balance position of cast part during lifting to avoid any incident			
4.	Ensure safe workplace for fettling process			
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
5.	Select appropriate hand held tools and power tools for removing excess material from casting			
6.	Select appropriate repairing tool			
7.	Select appropriate hand and power tool for cutting and grinding			
8.	Identify appropriate equipment for surface cleaning			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Description of assessment task 2		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Perform visual inspection to identify excess material for removal process			
2.	Mark excess material area for removal process			
3.	Fettle excess metal (runners, risers and flashing) as per standard operating procedures.			
4.	Verify the required specification after fettling process of excess metal			
5.	Record and report the casting defects as per standard operating procedures.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Title of Qualification: Fettling Operator	CS Code:	Level:	Version: 01
Competency Standard Title: Fettle and trim metal 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.
------------------------	--

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: Fettling Operator	CS Code:	Level: 2	Version: 01
Competency Standard Title: Fettle and trim metal casting	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. What are the fettling operations?	<ul style="list-style-type: none"> • Knocking dry sand cores • Removal of gates and risers • Removal of fins and unwanted projections
2. Describe hazards and control measures associated with fettling and trimming metal castings/forgings	<ul style="list-style-type: none"> • heavily oxidized or rusted materials, or rust on the surface of tools or equipment • seasonal factors including high air temperature and relative humidity, or low air movement