

071504T4WLD

WELDING LEVEL 4

ENG/OS/WEF/CR/03/4/A

Perform MIG Welding in all Positions with Various Metal Work Pieces

March/April 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
(TVET CDACC)**

PRACTICAL ASSESSMENT

ASSESSOR'S GUIDE

INSTRUCTIONS TO ASSESSOR:

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name:			
Candidates Registration Code:			
Assessor's Name:			
Assessors' Registration Code:			
Venue of Assessment:			
Date of Assessment:			
Items to be evaluated. Award marks appropriately. Give a brief comment where less marks are awarded.	Max. marks	Actual marks	Comment
1. Adhered to prescribed safety: Wore and used PPEs correctly; <ul style="list-style-type: none"> i. Welding helmet ii. Safety boots iii. Leather gloves iv. Leather apron/Overall <p style="text-align: center;"><i>(Award 1 mark each)</i></p>	4		
Sub – total	4		
2. Set up MIG Welding equipment: <ul style="list-style-type: none"> a) Connected contact cables firmly b) Set correct working current and voltage c) Connected the wire feed correctly d) Set the speed of the wire e) Set working gas flow f) Switched off the machine after welding g) Closed the gas cylinder valve after welding <p style="text-align: center;"><i>(Award 1 mark each)</i></p>	7		
Sub – total	7		

3. Performed welding positions as per the job specifications: a) 1F (2 × 1) b) 2F (1 × 1) c) 3F (1 × 1) d) 6G (1 × 1) <i>(Award 1 mark each)</i>	5		
Sub – total	5		
4. Performed housekeeping: a) Hanged up the welding gun and welding cables b) Cleaned weld table and floor after welding c) Segregated waste and disposed as per workplace procedures d) Returned tools and unused materials to the store <i>(Award 1 mark each)</i>	4		
Sub-total	4		
Observation total marks	20		
PRODUCT CHECKLIST			
5. Prepared work pieces according to task specifications: a) Dimensions: Linear tolerance: ± 1 mm All dimensions are in mm i) 100 (12 × ½) 6 ii) 60 (4 × ½) 2 b) Squareness of work pieces: i) 100 × 100 (4 × ½) 2 ii) 100 × 60 (4 × ½) 2 <i>(Award ½ mark each)</i>			
Sub - total	12		

Performed MIG welding 6. Tee joint: a) Alignment $90^\circ \pm 1^\circ$ (2 × 1) b) Performed as per weld symbols (2 × 1) c) Welded as per working drawing (2 × 1) d) Weld quality; i) No undercut (2 × 1) ii) No cavities (2 × 1) iii) Proper fusion (2 × 1) iv) Uniform beads (2 × 1) <i>(Award 1 mark each)</i>	14		
Sub - total	14		
7. 135° joint: a) Alignment $135^\circ \pm 1^\circ$ (1 × 1) b) Performed as per weld symbols (1 × 1) c) Welded as per working drawing (1 × 1) d) Weld quality; i) No undercut (1 × 1) ii) Uniform bead (1 × 1) iii) No cavities (1 × 1) iv) No distortion (1 × 1) v) Full penetration (1 × 1) <i>(Award 1 mark each)</i>	8		
Sub - total	8		
8. Corner joints: a) Alignment $90^\circ \pm 1^\circ$ (2 × 1) b) Performed as per weld symbols (2 × 1) c) Welded as per working drawing (2 × 1) d) Weld quality; i. No undercut (2 × 1) ii. No cavities (2 × 1)	16		

iii. No distortion iv. Proper fusion v. Uniform beads <i>(Award 1 mark each)</i>	(2 × 1) (2 × 1) (2 × 1)			
Sub - total		16		
9. Assembly: a) Part 1 to part 2 b) Part 2 to part 3 c) Part 3 to part 4 d) Part 1 to part 5 e) Part 5 to part 6 (Award 1 each)	(1 × 1) (1 × 1) (1 × 1) (1 × 1) (1 × 1)	5		
Sub-total		5		
Total (product)		55		
GRAND TOTAL (Observation + Product)		75		
CANDIDATE SCORE ($\frac{x}{75} \times 100$)		100%		
<p>The candidate was found to be:</p> <p style="text-align: center;"> <input type="checkbox"/> Competent <input type="checkbox"/> Not yet competent </p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if s/he gets 50% and above)</i></p>				
<p>Feedback from candidate:</p> <p>.....</p> <p>.....</p>				
<p>Feedback to candidate:</p> <p>.....</p> <p>.....</p>				
Candidate's signature:		Date:		

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Assessor's signature: -----	Date: -----

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