

071606T4WAF

WELDING AND FABRICATION LEVEL 6

ENG/OS/WEF/CR/03/6/A

Perform Tungsten Inert Gas (TIG) Welding

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

OBSERV CKLIST

Candidate's Name & Registration Co			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
1. Adhered to prescribed safety; a. Wore PPEs i. Overall ii. Welding helmet iii. Safety boots iv. Leather gloves v. Leather Apron (Award 1 or 0 mark for each)	5		
Sub-Total	5		

2. Set up Tungsten Inert Gas (TIG) welding equipment as per the job specification; a. Machine start up i. Connected cables to allow welding ii. Set current to enable welding of the 6 mm thick plates iii. Set gas flow to allow welding b. Machine shut down i. Turned off TIG welding machine ii. Closed gas (Award 1 or 0 mark for each)	5		
Sub-Total	5		
3. Performed housekeeping; a. Cleaned the work station b. Disposed waste correctly c. Returned the tools and accessories to the right place (Award 1 or 0 marks for each)	3		
Sub-Total	3		
4. Performed welding positions as per the job specifications; a. 1F b. 2G c. 3F d. 4F (Award 2 or 0 marks for each)	8		
Sub-Total	8		
PRODUCT CHECKLIST			
5. Prepared work pieces according to the task specifications; a. Dimensions: Linear tolerance: ± 1			

mm			
All dimensions are in mm			
i. 120 (8 × ½)	4		
ii. 45 (12 × ½)	6		
iii. 21 (4 × ½)	2		
(Award ½ or 0 mark for each)			
b. Squareness of work pieces			
i. 120 × 45 workpiece (8 × ½)	4		
ii. 120 × 21 workpiece (8 × ½)	4		
iii. 45 × 45 workpiece (8 × ½)	4		
(Award ½ or 0 mark for each)			
c. Bevel preparation			
i. 45 × 45 workpiece (4 × ½)	2		
ii. 120 × 21 workpiece (2 × ½)	1		
(Award ½ or 0 mark for each)			
Sub-Total	27		
6. Butt Joint;	10		
a. Weld quality			
i. No undercut			
ii. No cavities			
iii. Proper fusion			
iv. Uniform bead			
v. Complete penetration			
(Award 2 or 0 marks for each)			
Sub-Total	10		
7. Tee joint;	10		
a. Alignment 90° ± 1			
b. Weld quality			
i. No undercut			
ii. No cavities			
iii. Uniform bead			
iv. Proper fusion			
(Award 2 or 0 marks for each)			

Sub-Total	10		
8. Corner joint; a. Alignment $90^\circ \pm 1$ b. Weld quality i. No undercut ii. No cavities iii. Uniform bead iv. Proper fusion (Award 2 or 0 marks for each)	10		
Sub-Total	10		
9. Assembly; a. Welded as per working drawing (Award 3 or 0 marks for each)	3		
Sub-Total	3		
GRAND TOTAL	81		
ASSESSMENT			
The candidate was found to be: Competent <input style="width: 50px; height: 20px; border: 1px solid black;" type="checkbox"/> Not yet Competent <input style="width: 50px; height: 20px; border: 1px solid black;" type="checkbox"/> <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature:		Date:	
_____		_____	
Assessor's Signature:		Date:	
_____		_____	

