

071506T4WAF

WELDING AND FABRICATION LEVEL 6

ENG/OS/WEF/CR/03/6

Perform Tungsten Inert Gas (TIG) Welding

July/August 2025



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

PRACTICE ASSESSMENT

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 & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: Please award marks as appropriate. Give a brief comment on your observation.	Max. marks	Actual marks	Comment
1. Adhered to prescribed safety as per workplace procedure and OSHA: Wore and used PPEs correctly i. Welding shield ii. Safety boots iii. Leather gloves iv. Leather apron/Overall (Award 1 or 0 mark for each)	4		
2. Set up Tungsten Inert Gas equipment a specifications: a. Connected contact cables firmly b. Set correct working current and voltage c. Connected the electrode correctly d. Set working gas flow e. Switched off the machine f. Closed gas cylinder valve g. Hanged up the welding gun and welding cables (Award 1 or 0 mark for each)	7		
Sub Total (observation)	11		
PRODUCT CHECKLIST			
3. Prepared work pieces according to task specifications: a. Dimensions: Linear tolerance: ± 1 mm All dimensions are in mm	15		

i. Ø120 (5 × 1) ii. 60 (5 × 1) iii. Ø50 (5 × 1) (Award 5 marks for each)			
4. Performed rolling of 65 × 160 plate (Award 5 marks)	5		
5. Tee joint: a. Alignment $90^\circ \pm 1$ b. Weld quality i. No cavities ii. No undercut iii. No Slag inclusion iv. No cracks v. Proper fusion vi. No distortion (Award 2 or 0 marks for each)	14		
6. Assembly: a. Welded as per working drawing b. Welded as per weld symbols (Award 3 or 0 marks for each)	6		
Sub Total (product)	40		
HOUSEKEEPING			
7. Performed house keeping a. Left the work area in a safe, clean and tidy state b. Segregated waste and disposed as per workplace procedures c. Returned tools and unused materials to the store (Award 2 or 0 mark for each)	6		
Sub Total (housekeeping)	6		
GRAND TOTAL	57		

ASSESSMENT OUTCOME	
The candidate was found to be: Competent Not yet Competent (Please tick as appropriate) (The candidate is competent if the candidate obtains at least 50%)	
Feedback from the Candidate:	
Feedback to the Candidate:	
Candidate Signature:	Date:
Assessor's Signature:	Date: