

**071505T4WAF**

**WELDING AND FABRICATION LEVEL 5**

**ENG/OS/WEF/CR/07/5**

**Perform Weld Testing**

**July/August 2025**



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

**PRACTICAL ASSESSMENT**

**Time: 6 HOURS**

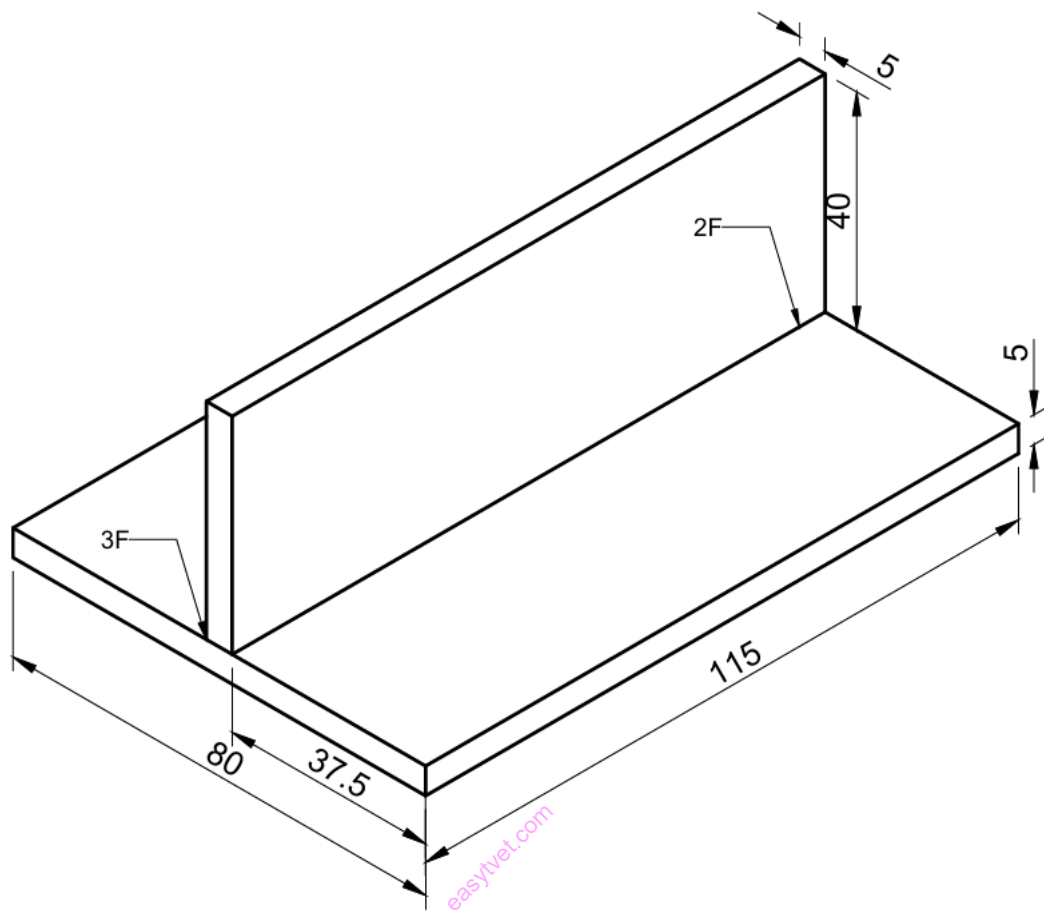
**INSTRUCTIONS TO CANDIDATE**

1. You are required to perform the following tasks;
  - i. Prepare parts as per the working drawing
  - ii. Carryout Manual Metal Arc Welding as per the working drawing
  - iii. Carryout weld test using dye penetrant testing method
2. You have been provided with the following resources for the practical task:
  - Mild Steel plates
    - 117 mm × 82 mm × 5 mm (1 off)
    - 117 mm × 42 mm × 5 mm (1 off)
  - Complete Manual Metal Arc Welding machine and its accessories
  - E6013 Ø3.2 mm Arc Welding electrodes
  - PMC Flaw check – Visible Colour Series
    - Water washable Penetrant PP19
    - Cleaner Water

- Developer PP 31
- Metal wire brush
- Scriber
- Try-square
- Assorted files
- Divider
- Steel rule
- Tape measure
- Hacksaw frame and blade
- Angle grinder
- Grinding disc
- Chipping hammer
- Bench and vices
- Breathing Mask
- Welding shield
- Leather gloves
- A pair of tongs
- Cotton waste
- Surgical gloves

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**WORKING DRAWING**



**Notes:**

**Tolerance  $\pm 1\text{mm}$**

**All dimensions in mm**

**APPENDIX 1**

<b>Welding Inspection Analysis Report</b>				
<b>Welding procedure:</b>		<b>Venue:</b>	<b>Date:</b>	
<b>Discontinuities</b>	<b>Severity level</b> <b>(Tick as appropriate)</b>			<b>Remarks</b>
	<b>None</b>	<b>Marginal</b>	<b>Rejectable</b>	
Hairline Cracks				
Surface porosity				
Fatigue cracks				
Leaks				
Additional notes/comments ..... ..... ..... ..... ..... ..... ..... ..... ..... .....				
Inspector's Name: .....			Sign: .....	