

**071506T4MTM**

**MECHANICAL TECHNOLOGY AND MAINTENANCE TECHNICIAN LEVEL 6**

**ENG/OS/MEM/CR/03/6**

**Perform Oxy-Acetylene Gas Welding and Cutting**

**July/August 2025**



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

## **PRACTICAL ASSESSMENT**

### **INSTRUCTIONS TO CANDIDATE**

1. The duration for the practical will be as guided by your assessor.
2. You are required to perform the following tasks Task 1
  - i. Produce component 1 and 2 as shown on the working drawing.
  - ii. Inspect your finished work and record it in the form 'candidate's inspection checklist for the finished work' provided in appendix 1 and 2.

3. You have been provided with the following resources for the practical tasks:

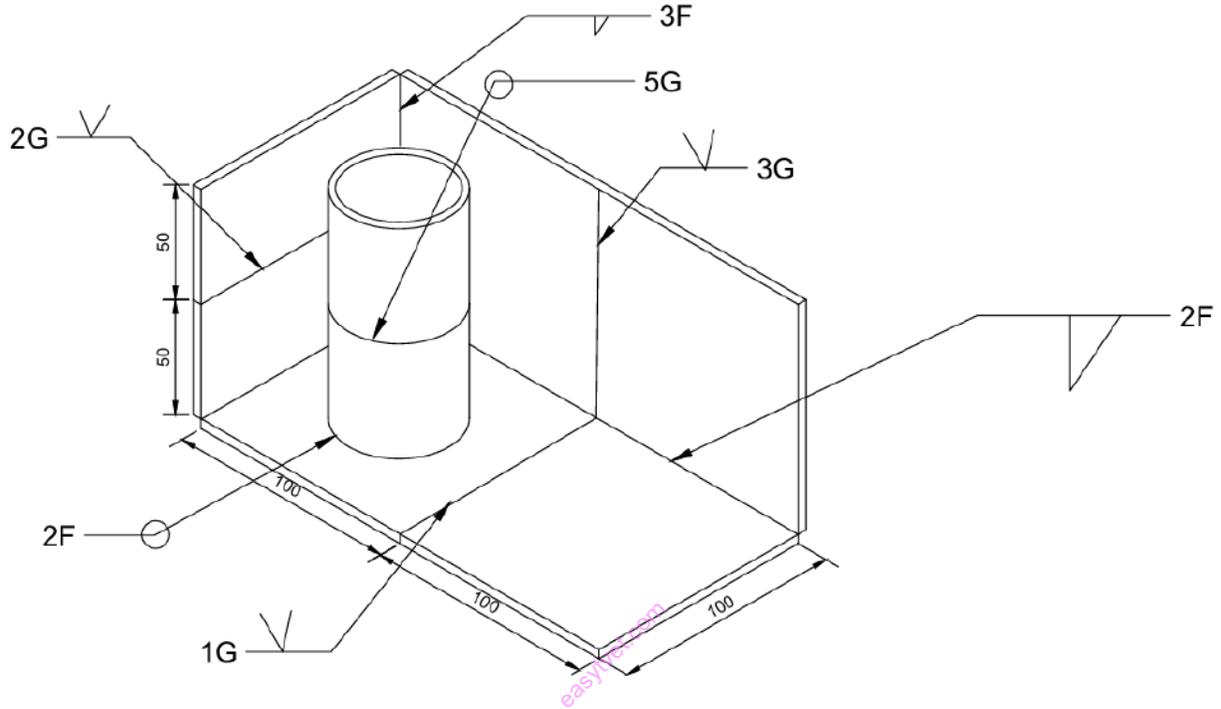
- Mild steel plates
  - 102 x 102 x 4 (4 off)
  - 102 x 52 x 4 (2 off)
- Mild Steel pipe (gauge 18)
  - $\varnothing 50$  x 52 (2 off)
- Mild steel plates
  - 102×82×3 (2 off)
  - 102×72×3 (2 off)
  - 102×52×3 (1 off)
- Gas welding filler rods (ER70S-6)
- Complete Gas welding equipment and accessories
- Hand grinding machine.
- Cutting discs.
- Flux
- Bench vice
- Welding shield.
- Tongs.
- G-clamp.
- Chipping hammer.
- Ball peen hammer.
- Wire brush.
- Flat files.
- Engineer's square.
- Scriber.
- Steel rule.
- Welding table.
- Hacksaw.
- Welding leather gloves.
- Clear goggles

**Note:**

- **All dimensions are in mm**
- **Tolerance;**
  - **± 0.5 on material preparation**
  - **± 1 on the finished product**

**WORKING DRAWINGS**

**1. COMPONENT 1**

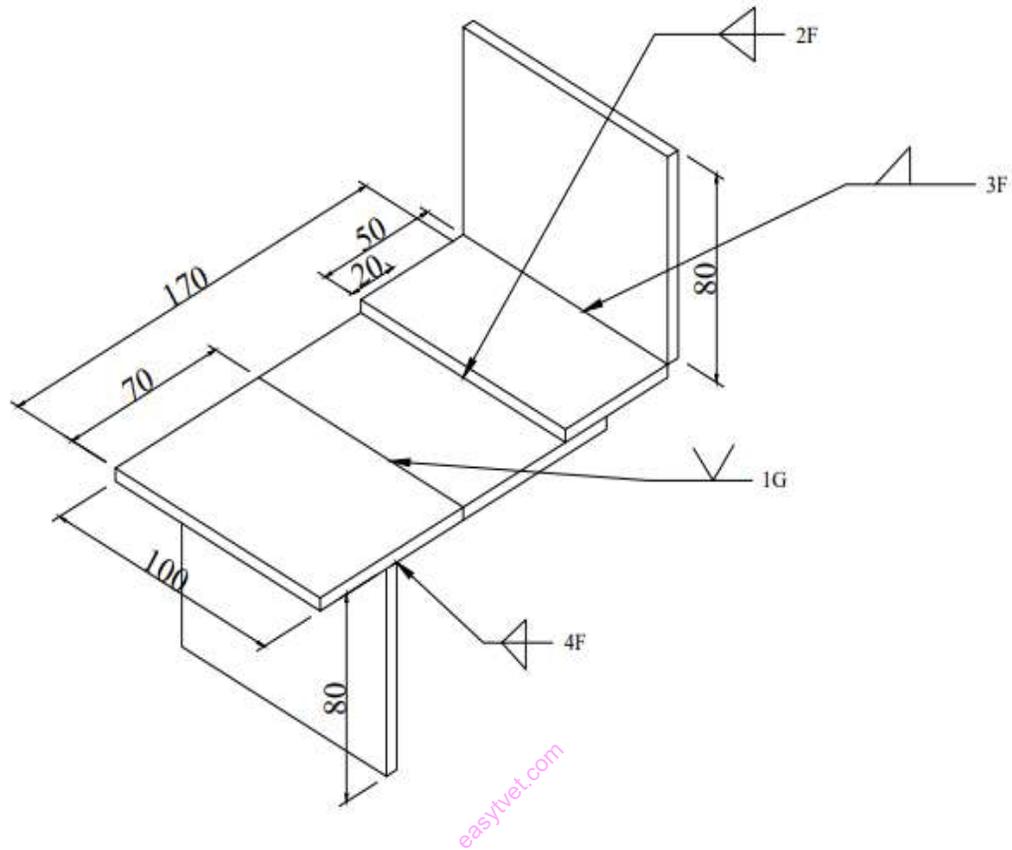


**Appendix 1:**

**Candidate's Inspection Checklist for the Final assembly**

S/No	Main dimensions	Measured dimension	Deviations	Comments
<b>Linear (±1)</b>				
1.	200; on butt joints (3)			
2.	100; on pipe's butt joint (4)			
3.	100; on other butt joint (2)			

**2. COMPONENT 2**



**Appendix 2:**

**Candidate's Inspection Checklist for the Final assembly**

S/No	Main dimensions	Measured dimension	Deviations	Comments
<b>Linear (<math>\pm 1</math>)</b>				
1.	170; total length (2)			
2.	100; on lap joint (2)			
3.	140; on butt joint (2)			