

071505T4WAF

WELDING AND FABRICATION LEVEL 5

ENG/OS/WEF/CR/05/5/A

Tungsten Inert Gas (TIG) Welding

March/April 2025



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

PRACT MENT

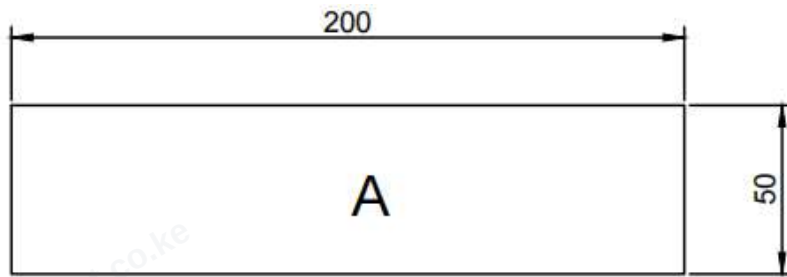
Time: 6 HOURS

INSTRUCTIONS TO CANDIDATE:

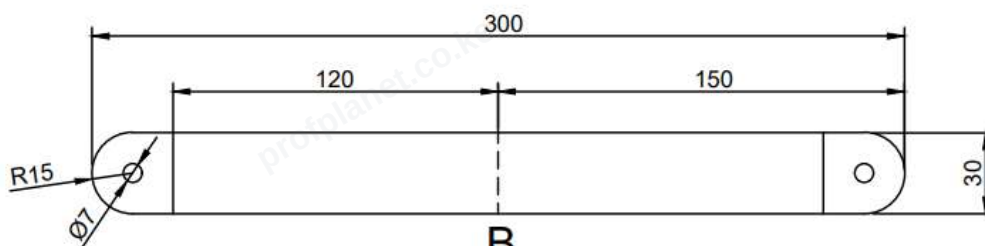
1. You are required to perform the following tasks;
 - i. Prepare workpieces as per the working drawing
 - ii. Carryout Tungsten Inert Gas (TIG) Welding
2. You have been provided with the following resources for the practical tasks:
 - Mild steel Plates
 - 52 mm × 32 mm × 4 mm (2 off)
 - 302 mm × 32 mm × 4 mm (1 off)
 - Mild Steel flat bar
 - 202 mm × 50 mm × 6 mm (1 off)
 - R6 round bar
 - Ø6 mm × 202 mm (1 off)
 - Complete Tungsten Inert Gas (TIG) Welding equipment and accessories

- TIG electrode
- TIG filler rod
- Vernier caliper
- Steel rule
- Tape measure
- Protractor
- Bench with vices
- Hacksaw frame and blade
- Chisel
- Ball Pein Hammer
- Drilling equipment
- Ø6.5 mm drill bit
- Scriber
- Chalk
- A4 Plain Paper
- Try square
- Centre Punch
- Assorted files
- Metal wire brush
- Sleeves
- A pair of tongs
- TIG welding shield
- Leather gloves

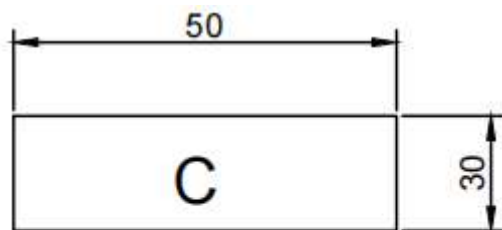
WORKING DRAWING



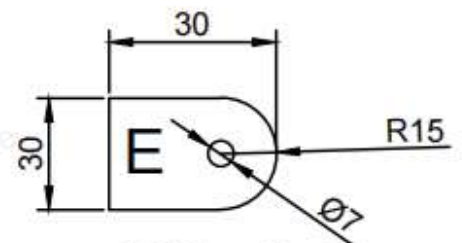
6 mm Flat bar
1 off



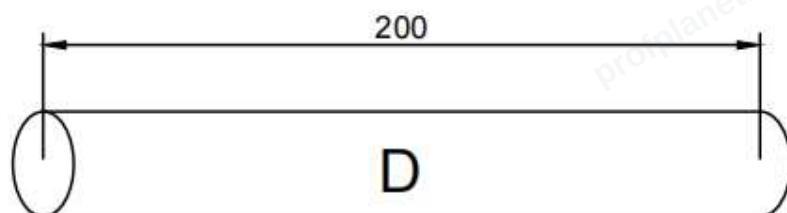
4 mm MS plate
1 off



4 mm MS plate
2 off

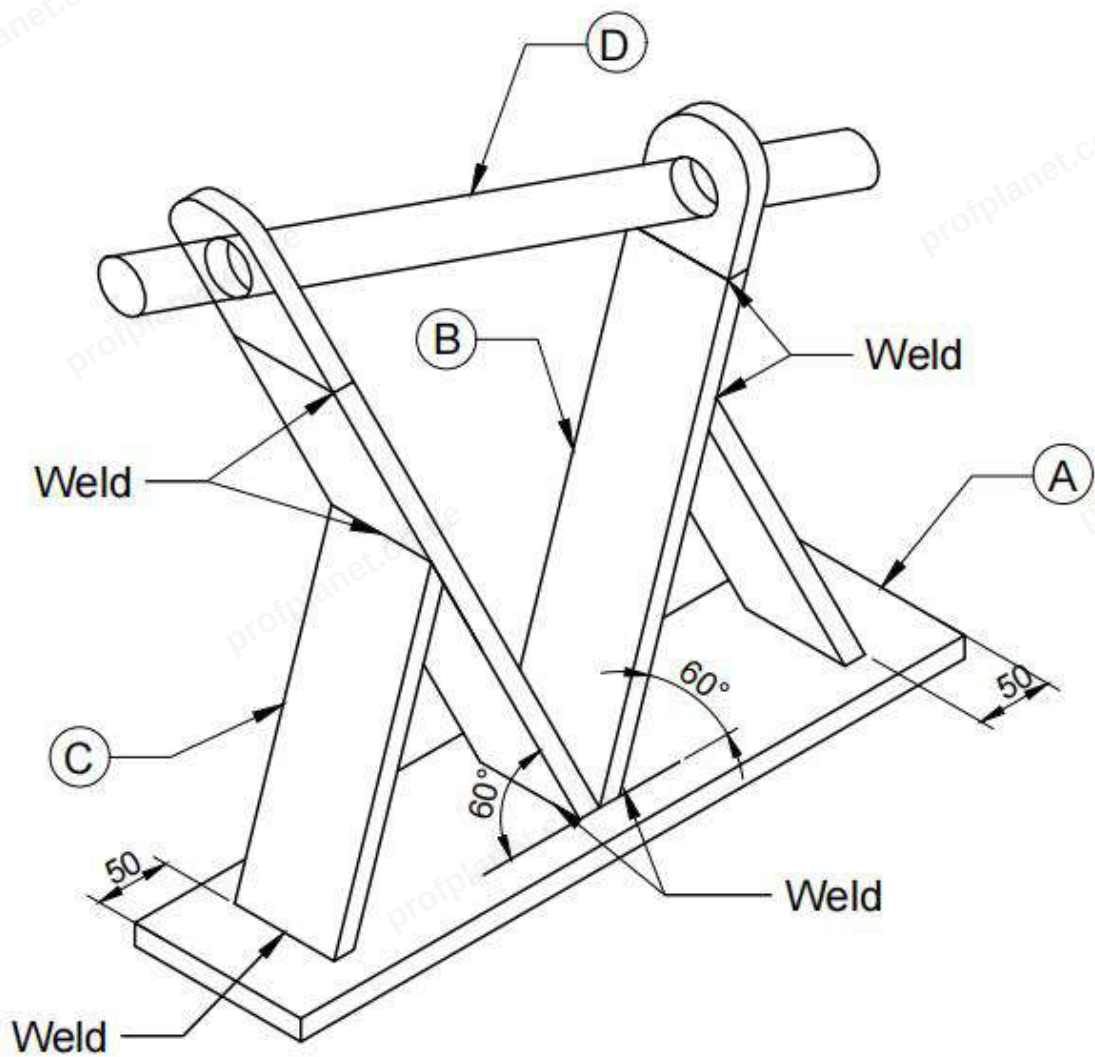


4 mm MS plate
2 off



R6 round bar
1 off

ASSEMBLY



NOTES: All dimensions are in millimeters (mm)

Tolerance ± 1 mm