

071606T4IMT

INDUSTRIAL MECHATRONICS TECHNOLOGY LEVEL 6

ENG/OS/IMT/CR/13/6/A

OPERATE FABRICATION MACHINERY

July/August 2024



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

PRACTICAL ASSESSMENT

TIME: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

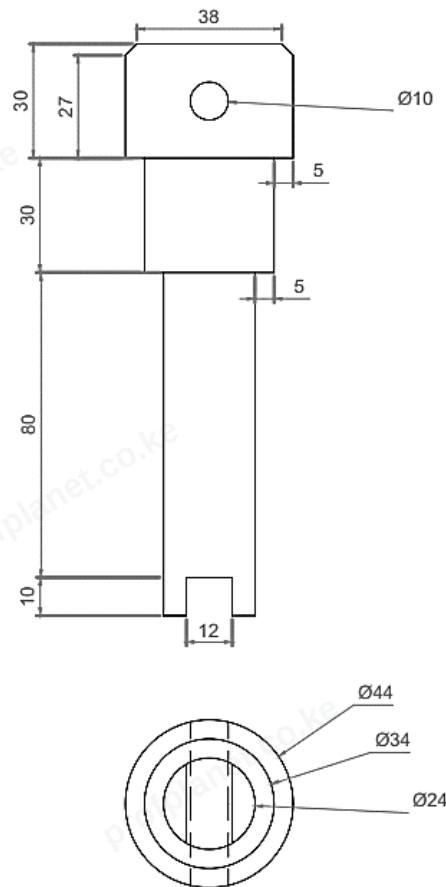
1. Do not write on the question paper.
2. DO NOT switch ON power without assessor's permission.
3. The assessor will assess your performance at critical points and may record your performance using audio-visual means.

This paper consists of TWO (2) printed pages.

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

TASK:

You are supposed fabricate a modified spanner to be used for industrial pipe fittings using a lathe, milling and drilling machines. The specifications M12 modified spanner are from the figure below and perform knurling on the 44mm diameter section.



You are required to come up with a work plan and fabricate the product above carrying out the operations below:

i. Facing;	iv. Milling;
ii. Drilling;	v. Knurling;
iii. Turning;	vi. Chamfering.

2. You are provided with the following resources:

• Lathe machine and accessories • Facing tool • Knurling tool • Floor standing or bench drilling machine • Drill bit diameter 10mm	• Mild steel rod diameter 50 mm length 200mm • Milling machine and accessories • End mill cutter diameter 12mm • Turning tool • Parting off tool
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