

071506T4MTM

MECHANICAL TECHNOLOGY AND MAINTENANCE TECHNICIAN LEVEL 6

ENG/OS/MEM/CR/08/6

Maintain Pumps and Air Compressors

July/August 2025



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

PRACTICAL ASSESSMENT

INSTRUCTIONS TO CANDIDATE:

1. The duration for this practical assessment shall be guided by your assessor.
2. In this practical assessment you are required to perform the following tasks:
 - i. Inspect the condition of the following parts of the centrifugal pump and record in the inspection checklist appendix 2;
 - Impeller
 - Seal chamber
 - Shaft
 - Bearing house
 - ii. Replace the shaft seal and the bearing.
 - iii. Test run the centrifugal pump.
 - iv. Update maintenance records on the maintenance log in appendix 1:
3. You are provided with the following resources to carry out the tasks:
 - i. A centrifugal pump and accessories
 - ii. Impeller wrench set.

- iii. Grease
- iv. Grease gun
- v. Steel rule
- vi. Hole gauge
- vii. Vernier caliper
- viii. Bore gauge
- ix. Micrometer screw gauge
- x. Work bench
- xi. Dial gauge indicator
- xii. Wire cables
- xiii. Maintenance tags
- xiv. Barricade tape
- xv. Adjustable spanner
- xvi. Screwdrivers (flat and star)
- xvii. Pliers
- xviii. Seals
- xix. Shaft bearing
- xx. Bearing puller
- xxi. Pressure gauge.
- xxii. Soft hammer
- xxiii. Dustbin
- xxiv. Cotton waste
- xxv. Isopropyl alcohol.
- xxvi. Circlip Ring Pliers set
- xxvii. Wrenches (Torque, Box End, Hex Head, and Spanner)
- xxviii. Ratchet & Socket Set

APPENDIX 2

INSPECTION CHECKLIST

S/N	PART NAME	DESCRIPTION OF PART CONDITION
1.		
2.		
3.		
4.		

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