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INDUSTRIAL AUTOMATION AND ROBOTICS LEVEL 6

ENG/OS/IA/CR/01/6

Maintain Mechanical Systems

July/August 2025

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

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PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform a series of maintenance tasks on a compressor system using the tools and equipment provided.

   Tasks:

   i. **Task 1:** Drain liquid from the tank
      - Safely release and drain any accumulated liquid from the air tank.

   ii. **Task 2:** Check and inspect fasteners, hoses and electrical connections
      - Inspect all mechanical fasteners for looseness or damage
      - Examine hoses for signs of wear, cracks, or leaks.
      - Inspect electrical connections to ensure they are secure and free of corrosion.

   iii. **Task 3:** Clean external components and change air filters

- Clean the external surfaces of the compressor to remove dust and debris.
- Remove and replace the air filters with clean ones as needed.

iv. **Task 4:** Check oil level and change oil

- Check the current oil level and top up if necessary.
- If due, drain the old oil and replace it with new compressor oil according to the manufacturer's specifications.

v. **Task 5:** Perform housekeeping

- Clean the work area.
- Properly store all tools and dispose of used materials safely.

2. You have been provided with the following resources for the practical tasks:
   - A motor driven compressor
   - A full compressor tool kit

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