



Australian Government

Assessment Requirements for AURPTA010 Inspect and service pumping systems

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect and service the following three outdoor power equipment pumping systems:
 - centrifugal pumping system
 - high pressure piston pumping system
 - diaphragm pumping system.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting and servicing pumping systems, including procedures for:
 - safely starting and operating pumping systems
 - working with exhaust fume hazards
 - working with 240 volt equipment
- identification and function of positive and non-positive displacement pumping systems
- application and purpose of pumping systems, including:
 - centrifugal pumps as used for firefighting, irrigation and water transfer
 - high pressure piston pumps as used in pressure cleaners
 - diaphragm pumps as used in orchard spraying
 - drive systems
- types of lubricants and fluids, and their application
- inspection procedures for pumping systems, including:
 - component wear analysis

- system operation analysis
- service and adjustment procedures for pumping systems, including:
 - filters and strainers
 - hose and pipe fittings and attachments
 - overload devices
 - protective guards and cowlings
 - handle assembly
 - lubrication systems
 - mounting brackets and frame
 - test procedures and pump performance
 - drive systems
- post-service testing procedures for outdoor power equipment pumping systems.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the pumping systems that they have worked on, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- outdoor power equipment repair workplace or simulated workplace
- workplace instructions
- manufacturer specifications for pumping systems
- three pumping systems specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing pumping systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

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