



Australian Government

Assessment Requirements for AURPTA110 Inspect and service pumping systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to inspect and service pumping systems, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to inspect and service pumping systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) 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, strainers and seals
 - hose and pipe fittings and attachments
 - overload devices
 - protective guards and cowlings
 - handle assembly
 - lubrication systems
 - mounting brackets and frame
 - test procedures and pump pressure, suction and discharge
 - drive systems
 - replacing service items
 - inspecting hoses fittings and mountings
- post-service testing and re-testing procedures for outdoor power equipment pumping systems.

Assessment Conditions

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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