



**Australian Government**

**Assessment Requirements for AURPTE002  
Inspect and service outdoor power  
equipment engines**

**Release: 1**

# Assessment Requirements for AURPTE002 Inspect and service outdoor power equipment engines

## 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 outdoor power equipment engine types:
  - two-stroke spark ignition engine
  - four-stroke spark ignition engine
  - four-stroke compression ignition engine
- the above work must involve:
  - minor engine adjustments
  - replacing oil and oil filter
  - inspecting ancillary components.

## 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 outdoor power equipment engines, including procedures for working with:
  - rotating and hot components
  - engine oils
  - high energy ignition and charging systems
- environmental requirements, including procedures for trapping, storing and disposing of lubricant and fluids released from outdoor power equipment engines
- identification and function of two-stroke and four-stroke major engine components, including:
  - cylinder block and head

- piston and connecting rod
- crankshaft
- valve train
- manifolds
- ports and reed valves
- carburettors and fuel injectors
- identification and function of outdoor power equipment engine systems, including:
  - lubrication
  - cooling system, including:
    - air cooled
    - liquid cooled
  - fuel system
- basic operation of spark ignition engines and compression ignition engines, including:
  - two-stroke spark ignition engines
  - four-stroke spark ignition engines
  - four-stroke compression ignition engines
- types and applications of:
  - engine configurations
  - engine oils and filters
- inspection procedures for engines, including:
  - oil and fluid leaks
  - ancillary components, including:
    - mountings
    - belts and pulleys
- service and adjustment procedures for engines, including:
  - minor adjustments
  - changing oil and filter
- post-service testing procedures for outdoor power equipment engines, including operating engine through full operating range.

## 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 equipment or outdoor power equipment engines 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 engine specifications
- three different outdoor power equipment engines specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing outdoor power equipment engines.

## 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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