



**Australian Government**

**Assessment Requirements for AURTTA007  
Inspect, service and repair pneumatic  
systems**

**Release: 1**

# Assessment Requirements for AURTTA007 Inspect, service and repair pneumatic systems

## 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 standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect, service and repair two different pneumatic systems, including the following components in each system:
  - compressors and filters
  - linear and rotary actuators
  - pipes, hoses and connectors
  - control valves
- test above pneumatic systems, including:
  - adjusting and testing pneumatic components
  - setting up and testing compressor cut-out system
  - testing for system leaks.

## 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, servicing and repairing pneumatic systems, including procedures for working with stored pressure
- environmental requirements, including procedures for trapping, storing and disposing of oils and fluids released from pneumatic systems
- types and applications of pneumatic systems
- pneumatic system schematic diagrams and symbols
- identification, function and operation of pneumatic systems and components, including:
  - clamping systems

- hydropneumatic intensifiers
- rotary and screw compressors
- linear actuators
- rotary actuators
- drive motors
- lines, hoses and couplings
- control valves
- types of lubricants suitable for pneumatic systems, and their application and methods of lubrication
- inspection, servicing and repair procedures for pneumatic systems
- pneumatic system test and commissioning procedures
- post-repair testing procedures for pneumatic 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 pneumatic systems that they have serviced and repaired, 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:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer pneumatic system specifications
- two different vehicles or machinery with pneumatic systems requiring service and repair
- tools, equipment and materials appropriate for inspecting, servicing and repairing pneumatic systems.

## Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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