



**Australian Government**

# **Assessment Requirements for AURTTA006 Inspect and service hydraulic systems**

**Release: 1**

# Assessment Requirements for AURTTA006 Inspect and service hydraulic 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 standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect and service two different hydraulic systems, in which the work must involve:
  - evaluating hydraulic fluid condition
  - replacing hydraulic filters
  - carrying out adjustments
  - carrying out visual inspections
  - carrying out operational testing.

## 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 hydraulic systems, including procedures for:
  - using raising, lowering and supporting equipment
  - working with fluids under pressure
  - working with hot fluid hazards
  - isolating and stabilising vehicles or machines
- environmental requirements, including procedures for:
  - trapping, storing and disposing of hydraulic fluid released from hydraulic systems
  - disposing of filters
- identification, function and basic operation of major hydraulic system components, including:
  - reservoir

- accumulator
- pump and charge pump
- pump
- valves
- actuators
- motor
- oil cooler
- filters
- hoses, pipes, connectors and fittings
- AS 1101.1 Graphic symbols for general engineering, Part 1: Hydraulic and pneumatic systems
- types and applications of hydraulic oils, including:
  - additives
  - viscosity ratings
  - viscosity index
  - fire resistant fluids
  - synthetic fluids
- types and applications of hydraulic filters, including:
  - filter types
  - position of filters
  - filter ratings
- inspection, evaluation and operational test procedures for hydraulic systems, including:
  - hydraulic oil sampling
  - oil contamination control
  - cycle times checks
  - pressure checks
- service and adjustment procedures for hydraulic systems, including:
  - oil and filter replacement scheduling
  - oil cleanliness procedures
- post-service testing procedures for hydraulic 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 hydraulic 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:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer hydraulic system specifications
- AS 1101.1 Graphic symbols for general engineering, Part 1: Hydraulic and pneumatic systems
- two different hydraulic systems requiring servicing
- tools, equipment and materials appropriate for the inspection and servicing of hydraulic systems.

## Links

Companion Volume implementation guides are found in VETNet -

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

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