



Australian Government

Assessment Requirements for AURTTA011 Install hydraulic systems to specified applications

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:

- install one hydraulic system in vehicle or machinery to specified applications, including:
 - assembling hydraulic system
 - adjusting and testing hydraulic 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 installing hydraulic systems, including procedures for:
 - using raising, lowering and supporting equipment
 - isolating and stabilising machines
 - working with stored hydraulic pressure
 - working with escaping high pressure oil
- environmental requirements, including procedures for trapping, storing and disposing of fluid released from hydraulic systems.
- requirements of AS 1101.1 Graphic symbols for general engineering, Part 1: Hydraulic and pneumatic systems
- requirements of Mechanical Design Guideline (MDG) 41 for Fluid Power Safety at Mines
- hydraulic system installation diagrams and schematics
- principles of hydraulic systems and components, including actuators, conductors, pressure flow and direction control systems
- identification, application and operation of hydraulic systems, including:
 - linear actuators

- rotary actuators
- hoses, pipes fittings and couplings
- control valves
- arms and pads
- procedures for installing hydraulic systems in vehicles and machinery
- procedures for adjusting, tuning and testing the installation of hydraulic systems in vehicles or machinery.

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 installed, 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 and installation procedures
- hydraulic system for installation
- one vehicle or machinery requiring installation of hydraulic system
- AS 1101.1 Graphic symbols for general engineering, Part 1: Hydraulic and pneumatic systems
- Mechanical Design Guideline (MDG) 41 Guideline for Fluid Power Safety at Mines
- tools, equipment and materials appropriate for installing 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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