



Australian Government

**Assessment Requirements for AURTTA012
Fabricate and install fluid power hose
assemblies**

Release: 1

Assessment Requirements for AURTTA012 Fabricate and install fluid power hose assemblies

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:

- fabricate, test and install fluid power hose assemblies, using both field attachable and crimp fittings, on two of the following:
 - single wire braid hose
 - double wire braid hose
 - spiral wire hose.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to fabricating and installing fluid power hose assemblies, including procedures for:
 - working with fluids under pressure
 - working with stored pressure hazards
 - isolating and stabilising vehicle or machinery
- environmental requirements, including procedures for trapping, storing and disposing of oil released from hydraulic hoses
- requirements of industry standards for hydraulic hoses and connectors, including:
 - MDG 41 Guideline for Fluid Power System Safety at Mines
 - ISO 6805 Rubber hoses and hose assemblies for underground mining
 - SAE J517 Hydraulic Hose
- application and purpose of hydraulic hoses, including:
 - hose sizes

- hose working pressures
- hydraulic hoses, including:
 - fabric braid
 - single wire braid hose
 - double wire braid hose
 - spiral wire hose, including multi-spiral wire hose
 - crimped and swaged hose fittings
 - field attachable hose fittings
 - couplers, connectors and fittings
- fabrication procedures for fluid power hose assemblies
- testing procedures for fluid power hose assemblies
- installation procedures for fluid power hose assemblies, including routing of hydraulic hoses and pipes
- post-repair testing procedures for fluid power hose assemblies, including visual and performance tests.

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 fluid power hose assemblies that they have fabricated and 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 fluid power hose specifications
- MDG 41 Guideline for Fluid Power System Safety at Mines
- ISO 6805 Rubber hoses and hose assemblies for underground mining
- SAE J517 Hydraulic Hose
- test equipment for fluid power hose assemblies
- vehicles or machinery requiring the installation of the fluid power hose assemblies specified in the performance evidence
- tools, equipment and materials appropriate for fabricating and installing fluid power hose assemblies, including a crimping machine.

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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