



Australian Government

**Assessment Requirements for
AURVTW008 Carry out oxyacetylene
welding, thermal heating and cutting**

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:

- carry out oxyacetylene welding procedures on:
 - one butt joint, 150 mm long
 - one fillet joint, 150 mm long
 - one lap joint, 150 mm long
 - one exhaust pipe joint
- carry out a thermal cutting task, including a straight cut of 150 mm long
- carry out one of the following thermal heating tasks:
 - freeing a corroded bolt or fitting
 - freeing a corroded exhaust component.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS), and occupational health and safety (OHS) requirements relating to carrying out oxyacetylene welding, thermal heating and cutting, including procedures for:
 - selecting and using personal protective equipment (PPE) to use oxyacetylene equipment, including approved oxyacetylene welding glasses
 - using specialist welding, thermal heating and cutting tools and equipment
 - manually handling components and welding, thermal heating and cutting equipment
 - identifying and controlling hazards
- environmental requirements, including procedures for trapping, storing and disposing of waste materials

- technical information and workplace procedures relating to oxyacetylene welding and thermal heating and cutting
- types and characteristics of different metals
- use and operation of oxyacetylene plant, including setting and adjusting pressure and gauges
- oxyacetylene flame identification and adjustment, including:
 - natural
 - carburising
 - oxidising
- maintenance requirements of oxyacetylene equipment, including checking for oxyacetylene gas leaks from gauges, fittings and hoses
- methods and techniques for thermal heating and cutting
- procedures for oxyacetylene welding
- procedures for reporting faults and material defects
- final inspection procedures.

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 having carried out oxyacetylene welding and thermal heating and cutting on vehicles, e.g. work 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
- PPE required to use oxyacetylene welding equipment
- welding equipment, consumables and materials
- oxyacetylene plant
- tools, equipment and materials appropriate for carrying out oxyacetylene welding, thermal heating and cutting.

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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