



Australian Government

Assessment Requirements for AURTTS001 Fabricate exhaust systems and components

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:

- fabricate two different exhaust systems, in which the work must involve:
 - manufacturing flanges
 - pipe bending
 - joining components by welding.

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 exhaust systems and components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - using tools and equipment
 - safely handling fabrication equipment
 - using welding equipment
 - controlling hazards, including abnormal noise and hazardous fumes
- operating principles of exhaust systems, including scavenging and back pressure
- application, purpose and operation of exhaust systems, including:
 - mufflers
 - extractor pipes
 - catalytic converters
 - diesel particulate filters
- exhaust component fabrication, including:

- pipe bending
- flange manufacture
- welding techniques
- exhaust fabrication tools, including:
 - exhaust pipe benders
 - pipe cutters
 - formers
 - welding equipment
- exhaust system and component testing 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 the exhaust systems that they have fabricated, 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
- exhaust system fabrication material, including:
 - exhaust pipe
 - exhaust flanges
 - exhaust brackets
- tools, equipment and materials appropriate for exhaust system fabrication, including:
 - exhaust pipe benders
 - pipe cutters
 - formers
 - welding equipment.

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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