



Australian Government

Assessment Requirements for AURTTS101 Fabricate exhaust systems and components

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- fabricate at least two different exhaust systems
- complete the following activities in the course of the above work:
 - manufacture flanges
 - undertake pipe bending
 - join components by welding.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to fabricate exhaust systems and components, including:
 - manufacturers specifications or equivalent documentation
- workplace procedures required to fabricate exhaust systems and components, including:
 - establishing the serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- the following workplace health and safety (WHS) requirements relating to fabricating exhaust systems and components:
 - selecting and using personal protective equipment (PPE)

- procedures for using tools and equipment
- procedures for safely handling fabrication equipment
- procedures for controlling abnormal noise and hazardous fumes
- environmental requirements for fabricating exhaust systems and components
- technical exhaust systems information, including:
 - scavenging
 - back pressure
- purpose and operation of the following exhaust systems:
 - mufflers
 - extractor pipes
 - catalytic converters
 - diesel particulate filters
- purpose and operation of the following exhaust component fabrications:
 - pipe bending
 - flange manufacture
 - welding techniques
- purpose and operation of the following exhaust fabrication tools:
 - exhaust pipe benders
 - pipe cutters
 - formers
 - welding equipment.

Assessment Conditions

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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