



Australian Government

Assessment Requirements for AURTTA022 Develop and apply mechanical system modifications

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 standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- develop and apply one of the following significant and non-routine modifications on the mechanical system of two different vehicles, vessels, machinery or equipment:
 - adapt or modify mechanical system to a significantly changed capability
 - adapt mechanical system for different work conditions
 - modify or install a significant mechanical system for a special purpose.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to developing and applying mechanical system modifications, including procedures for using personal protective equipment (PPE) and hand tools
- principles and processes involved in planning and implementing modifications to mechanical systems
- principles and processes involved in planning and implementing modifications to mechanical systems
- types, functions, operation and limitations of mechanical systems being modified
- types, functions, operation and limitations of diagnostic testing equipment required for mechanical system modifications
- requirements of Australian Design Rules (ADRs) and Vehicle Safety Bulletins (VSBs) relating to mechanical system modifications
- procedures for documenting and reporting the modification specifications and outcomes.

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 mechanical systems that they have modified, 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 mechanical system specifications
- ADRs and VSBs relating to mechanical system modifications
- two different vehicles, vessels, machinery or equipment requiring mechanical system modification
- testing equipment for mechanical system modification
- tools, equipment and materials appropriate for completing mechanical system modifications.

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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