



**Australian Government**

# **Assessment Requirements for AURHTX004 Diagnose and repair heavy vehicle clutch systems**

**Release: 1**

## Assessment Requirements for AURHTX004 Diagnose and repair heavy vehicle clutch systems

### 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:

- diagnose and repair a fault in one heavy vehicle clutch system, which must involve:
  - removing and refitting the heavy vehicle manual transmission
  - removing and replacing the clutch friction disc, clutch pressure plate assembly, and release bearing
- diagnose and repair a fault in one heavy vehicle clutch operating system.

### Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to diagnosing and repairing heavy vehicle clutch systems, including procedures for:
  - using transmission lifting and supporting equipment
  - controlling hazards associated with clutch dust and brake fluid
- environmental requirements, including procedures for trapping, storing and disposing of clutch dust and brake fluid released from clutch systems
- application, purpose and operation of heavy vehicle clutch systems and components, including:
  - single-disc clutch assemblies
  - multi-disc clutch assemblies
  - coil spring clutches
  - diaphragm spring clutches
  - clutch brakes

- flywheel
- clutch operating systems, including:
  - mechanical
  - hydraulic
  - pneumatic
  - electronic
- diagnostic testing procedures for heavy vehicle clutch systems, including:
  - inspecting and evaluating clutch assembly components
  - inspecting and evaluating clutch operating system
  - testing stationary and mobile clutch performance
- repair procedures for heavy vehicle clutch systems, including procedures for:
  - clutch operating systems
  - removing and refitting clutch assembly
  - inspecting and evaluating clutch components
  - adjusting clutches
- post-repair testing procedures for heavy vehicle clutch systems, including testing stationary or mobile performance.

## 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 heavy vehicle clutch systems that they have worked on, 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 clutch system specifications
- one heavy vehicle with clutch system faults
- diagnostic equipment for heavy vehicle clutch systems
- tools, equipment and materials appropriate for repairing and adjusting heavy vehicle clutch systems, including:
  - transmission lifting and supporting equipment
  - clutch aligning and adjusting tools.

## Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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