



Australian Government

Assessment Requirements for AURHTX104 Diagnose and repair heavy vehicle clutch systems

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:

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

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 diagnose and repair heavy vehicle clutch systems, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair heavy vehicle clutch systems, including:
 - establishing 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
- workplace health and safety (WHS) requirements relating to diagnosing and repairing heavy vehicle clutch systems, including procedures for:
 - using lifting and supporting heavy vehicle manual transmission equipment
 - handling and controlling clutch dust and clutch fluid
- environmental requirements relating to diagnosing and repairing heavy vehicle clutch systems, including procedures for trapping, storing and disposing of clutch dust and fluids released from clutch systems
- 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

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.

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>