

Assessment Requirements for AURTTX007 Overhaul clutch assemblies

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:

- overhaul three different clutch assemblies, including one of the following:
 - diaphragm clutch
 - coil spring clutch
 - dual mass flywheel.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to overhauling clutch assemblies, including procedures for:
 - trapping, storing and disposing of brake dust and brake fluids
 - using specialised clutch assembly overhaul tools, equipment and machinery
 - using chemicals and toxic cleaning substances
- environmental requirements, including procedures for trapping, storing and disposing of fluids and dust released from clutch assemblies
- types, characteristics and operating principles of clutch assemblies, including:
 - diaphragm clutches
 - coil spring clutches
 - multi-plate wet clutches
 - dual mass flywheels
 - dog clutches
 - clutch operating systems, including:

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- cable systems
- hydraulic systems
- clutch assembly overhaul procedures, including:
 - · methods for removing clutch assemblies from flywheels
 - methods for cleaning and preparing clutch assemblies for overhaul
 - clutch dismantling procedures, including:
 - diaphragm clutches
 - coil spring clutches
 - clutch component inspection, measuring and evaluation procedures, including:
 - non-destructive testing procedures, including dye penetrant testing and magnetic particle testing
 - flywheel, including surface damage and run-out, ring gear serviceability, and pilot bearing serviceability
 - pressure plate assembly, including pressure plate surface damage, pressure plate surface run-out and warping, diaphragm spring serviceability, coil spring and associated components serviceability, and clutch cover damage
 - friction disc serviceability
 - release bearing serviceability
 - · crankshaft, including pilot bearing bore run-out and crankshaft end float
 - · clutch release fork and transmission input shaft inspection
 - clutch repair and adjustment procedures, including flywheel and pressure plate machining
 - clutch assembly procedures, including procedures for adjusting component tolerances and clearances
- · post-overhaul testing procedures for clutch assemblies.

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 clutch assemblies 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:

- mechanical repair workplace or simulated workplace
- workplace instructions
- manufacturer clutch assembly specifications
- three different clutch assemblies requiring overhaul

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 tools, equipment and materials appropriate for overhauling and adjusting clutch assemblies.

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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