



Australian Government

**Assessment Requirements for AURTTF003
Overhaul diesel fuel injection system
components**

Release: 1

Assessment Requirements for AURTTF003 Overhaul diesel fuel injection system components

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 the following diesel fuel injection system components:
 - two different diesel fuel high pressure pumps
 - two different sets of diesel fuel injectors.

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 diesel fuel injection system components, including procedures for using:
 - specialised fuel system component overhaul tools, equipment and machinery
 - chemicals and toxic cleaning substances
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from fuel injection systems
- types, characteristics and operating principles of diesel fuel injection systems and associated components
- diesel fuel injection system component overhaul procedures, including:
 - methods for cleaning and preparing components for overhaul
 - component dismantling procedures
 - component inspection, measuring and evaluation procedures, including methods for measuring and calculating tolerances and clearances
 - component repair and adjustment procedures, including:
 - diesel fuel low pressure pumps

- diesel fuel high pressure pumps
- diesel fuel injectors
- component assembly procedures, including procedures for measuring and calculating tolerances, and adjusting components
- post-overhaul testing procedures for diesel fuel injection system components.

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 diesel fuel injection 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:

- mechanical repair workplace or simulated workplace
- workplace instructions
- manufacturer diesel fuel injection system component specifications
- diesel fuel injection system components specified in the performance evidence and requiring overhaul
- tools, equipment and materials appropriate for overhauling and adjusting diesel fuel injection system components.

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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