



Australian Government

Assessment Requirements for AURRTX002 Inspect and service marine inboard transmissions

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:

- inspect and service two different marine transmissions, including:
 - one inline transmission
 - one 'V' drive transmission.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting and servicing marine inboard transmissions, including procedures for identifying hazards and controlling risks associated with working with rotating shafts and pulleys
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from transmissions
- identification and function of marine inboard transmissions, including:
 - 'V' drive transmissions
 - inline transmissions
 - step-up transmissions
 - hydraulic transmissions
 - mechanical transmissions
 - counter shaft transmissions
 - planetary gear transmissions
 - mechanical dog clutches
- basic operation of marine inboard transmissions, including:

- mechanical transmissions
- hydraulic transmissions
- types and applications of lubricants and lubricating fluids for inboard transmissions
- inspection procedures for marine inboard transmissions, including oil and fluid condition and leaks
- service and adjustment procedures for marine inboard transmissions, including:
 - replenishing lubricants
 - control system with forward, neutral and reverse
 - cooling system
- post-service testing procedures for marine inboard transmissions.

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 marine inboard transmissions 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:

- marine repair workplace or simulated workplace
- workplace instructions
- manufacturer inboard transmission specifications
- two different vessels with the inboard transmissions specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing marine inboard transmissions.

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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