



Australian Government

Assessment Requirements for AURRTQ001 Inspect and service marine inboard propeller drive systems

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 three different vessels with inboard propeller drive systems.

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 inboard propeller drive systems, including procedures for identifying hazards and controlling risks associated with working with rotating shafts and component sharp edges
- identification and function of inboard propeller drive system components, including:
 - stern tube
 - propeller shaft and coupling
 - 'A' frame strut
 - 'I' strut
 - cutlass bearing
 - stern tube bearings
- basic operation of inboard propeller drive systems
- types and applications of lubricants and lubricating fluids for inboard propeller drive systems
- inspection procedures for inboard propeller drive systems, including procedures for checking clearances
- service and adjustment procedures for inboard propeller drive systems, including:
 - adjusting or replacing components

- greasing components
- post-service testing procedures for inboard propeller drive systems, including procedures for:
 - checking alignment
 - checking for abnormal noises.

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 propeller drive 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:

- marine repair workplace or simulated workplace
- workplace instructions
- manufacturer inboard propeller drive system specifications
- three different vessels with inboard propeller drive systems requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing marine inboard propeller drive systems.

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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