



Australian Government

Assessment Requirements for AURRTR007 Install marine electrical systems and components

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:

- install the following marine electrical components on two different vessels:
 - switch and fuse panels
 - bilge pump
 - lighting
 - depth sounder or fish finder
 - global positioning system (GPS).

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to installing marine electrical systems and components, including procedures for:
 - checking and dealing with flammable gas build-up in boats, including liquefied petroleum gas (LPG) and hydrogen, prior to starting electrical system work
 - working safely with potentially high current electrical systems
- construction and operating principles of marine electrical systems and components, including:
 - dash instrumentation
 - switch and fuse panels
 - bilge pumps
 - lighting
 - depth sounders and fish finders

- GPS
- marine radios
- marine battery charge management systems
- procedures for selecting, installing and testing marine electrical systems and components in vessels, including:
 - dash instrumentation
 - switch and fuse panels
 - bilge pumps
 - lighting, including marine safety regulations for vessel lighting
 - depth sounders and fish finders
 - GPS
 - marine radios
- procedures for installing and testing marine electrical systems and components on a bus topography.

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 electrical systems and components they have installed in vessels, 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:

- workplace location or simulated workplace
- workplace instructions
- manufacturer electrical system and component specifications
- two different vessels requiring installation of marine electrical systems and components
- the following electrical components:
 - switch and fuse panels
 - bilge pump
 - lighting
 - depth sounder or fish finder
 - GPS
- tools, equipment and materials appropriate for installing marine electrical systems and 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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