



Australian Government

MSMRV401 Specify complex installations in recreational vehicles

Release: 1

MSMRV401 Specify complex installations in recreational vehicles

Modification History

Release 1. Newly created unit.

Application

This unit describes the skills and knowledge required to specify complex installations in recreational vehicles, including evaluating installation requirements and developing, documenting and communicating an installation solution. Complex installations include solar panel and battery systems; Bluetooth/wi-fi device control and communication systems; and complex internal modifications, including those involving gas and all common electrical voltages.

The unit applies to an experienced, post-trade worker in a recreational vehicle manufacturing or service and repair facility. In a manufacturing facility, they may specify a new, complex installation for an existing recreational vehicle product or support the development of a new product. In a service and repair facility, they may be involved in a major refurbishment of a recreational vehicle or upgrading its existing systems.

The worker interprets and uses advanced technical information to develop solutions to potentially complex recreational vehicle requirements. They work independently and typically solve complex problems that require theoretical knowledge and experience about the specification, manufacture and installation of a wide range of recreational vehicle products. Job roles commonly involve leadership and supervisory responsibilities.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Evaluate the installation requirements	1.1 Identify job requirements from the customer's brief and specialist technical specifications if relevant 1.2 Identify the extent of information and documentation the customer requires as a response to the brief 1.3 Record the job requirements according to workplace procedures 1.4 Determine the technical feasibility of the job requirements and the applicable standards and codes of practice
2. Develop an installation solution	2.1 Identify systems and products potentially suitable for job requirements

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.2 Determine the technical specifications of potentially suitable systems and products from suppliers 2.3 Assess potentially suitable products for conformance to applicable standards and codes of practice 2.4 Identify any need for specialist technical advice about systems and appliances, and organise to obtain it according to workplace procedures 2.5 Communicate with the customer and seek advice about options 2.6 Develop an optimal solution that meets job requirements and conforms to applicable standards and codes of practice
3. Document and communicate the installation solution	3.1 Prepare documentation for the solution to meet the customer's requirements according to workplace procedures 3.2 Obtain further detailed information from manufacturers/suppliers to meet the customer's information and documentation requirements 3.3 Communicate the information to the customer 3.4 Respond to further questions or requests by the customer

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

Links

Companion volume implementation guides are found in VETNet –

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>

Assessment Requirements for MSMRV401 Specify complex installations in recreational vehicles

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Performance Evidence

There must be evidence the candidate has completed the tasks in the elements and performance criteria of this unit of competency and has demonstrated the ability to:

- assess requirements and develop specification, product and pricing documentation that complies with applicable codes of practice and relevant Australian standards for one or more jobs that individually or cumulatively involve:
 - a solar panel and battery system
 - a wireless / device control / connectivity system
 - a complex internal modification.
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Knowledge Evidence

There must be evidence the candidate knows:

- requirements relevant to the performance criteria of:
 - *AS/NZS 5601.2 Gas installations LP Gas installations in caravans and boats for non-propulsive purposes*
 - *AS/NZS 3000 Electrical installations (known as the Wiring Rules)*
 - *AS/NZS 3001 Electrical installations - Transportable structures and vehicles including their site supplies*
 - *the Road Vehicle Standards Act 2018*
 - Australian design rules
- other Australian standards and codes of practice applicable to complex installations in recreational vehicles
- types, characteristics, uses and limitations of recreational vehicle products and systems, including new-technology solutions, including those relating to:
 - solar panel and battery systems
 - Bluetooth/wi-fi device control and communication systems
 - recreational vehicle internal and external items
- sources of specialist technical advice about complex recreational vehicle installations
- the range of people and parties potentially involved in complex recreational vehicle installations, including interior designers, builders and product developers and suppliers
- workplace policies and procedures relevant to their job role and responsibilities including for:

- specifying complex installations in recreational vehicles
- communication and reporting
- environmental protection and sustainability, including noise and waste
- quality assurance
- work health and safety, including personal protective equipment
- work planning
- the most common issues that can arise when specifying complex installations in recreational vehicles and how to avoid and respond to them
- how to identify if complex installations in recreational vehicles are specified correctly, including documentation requirements.
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Assessment Conditions

Skills must have been demonstrated in the workplace or a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources for the types of complex installations being specified, including:
 - the customer's brief and specialist technical specifications, if relevant
 - a customer with whom to discuss options and present a proposed solution
 - recreational vehicles for which the complex installations are being specified if relevant
 - workplace procedures.

Assessors of this unit must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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