



Australian Government

MSMRV317 Install solar equipment on a recreational vehicle

Release: 1

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Modification History

Release 1 - New unit.

Application

This unit of competency covers the skills and knowledge required to install, program and test solar equipment on a recreational vehicle. The work will be carried out in a recreational vehicle manufacturing facility.

This unit of competency covers the preparation for, fitting of, and clean-up after the fitting of the solar equipment.

The operator will be required to work to procedures, and follow plans/specifications for what is required.

This unit of competency applies to an individual working alone or as part of a team/work group and working in liaison with other shift team members.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes

Performance criteria describe the performance needed to demonstrate achievement of the element

- | | | | |
|---|----------------------|-----|---|
| 1 | Plan the work | 1.1 | Review the requirements of the work |
| | | 1.2 | Check required tools and jigs are available at the worksite |
| | | 1.3 | Check required equipment and components are available at the worksite |

- 1.4 Identify any hazards and the related hazard controls
 - 1.5 Check the hazard controls are in place and operational
 - 1.6 Query any items that are different to usual and clarify requirements
- 2 **Install the equipment in accordance with procedures**
 - 2.1 Use relevant hazard controls, including personal protective equipment (PPE)
 - 2.2 Place the equipment in the required position
 - 2.3 Clamp/hold equipment in place as required
 - 2.4 Drill holes/make any penetrations required
 - 2.5 Fix equipment to structure as required
 - 2.6 Complete fitting of equipment as required
- 3 **Program and test solar equipment in accordance with procedures**
 - 3.1 Identify programs and tests required
 - 3.2 Program the equipment to meet customer requirements following manufacturer directions
 - 3.3 Run required tests and record results as required
 - 3.4 Make adjustment in response to test results
- 4 **Finish solar equipment installation**
 - 4.1 Check equipment has been fitted correctly and make any required adjustments
 - 4.2 Clean up recreational vehicle and work area, leaving it ready for the next job
 - 4.3 Segregate and handle waste in accordance with procedures
 - 4.4 Complete any required documentation/records

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or more of the following:

- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- temporary instructions
- any similar instructions provided for the smooth running of the plant

Hazards Hazards include one or more of the following:

- heat, dust or other atmospheric hazards
- electricity
- gas
- equipment failures
- industrial (machinery, equipment and product)
- noise, rotational equipment or vibration
- hazardous products and materials
- unauthorised personnel

- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- other hazards that might arise

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of the following:

- equipment/plant/machine malfunction
- variations in process conditions
- variations in materials or contamination of materials
- equipment, tool, die or mould damage
- product faults
- tooling problems

Known solutions are drawn from one or more of the following:

- procedures
- training
- remembered experience

Non-routine problems must be reported according to relevant procedures.

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>