



Australian Government

MSMRV372 Rough-in and fit-off recreational vehicle water systems

Release: 1

MSMRV372 Rough-in and fit-off recreational vehicle water systems

Modification History

Release 1. Supersedes and is equivalent to MSMRV312 Fit water systems in a recreational vehicle. Changes to application, elements, performance criteria and assessment requirements. Range of conditions removed.

Application

This unit describes the skills and knowledge required to rough-in water systems in recreational vehicles including installing water tanks (such as freshwater, greywater and blackwater tanks) and roughing-in pipes (such as water tubes, drain lines and vent tubes) from water supply points to drainage points. It also describes the skills and knowledge required to fit-off water systems in recreational vehicles, including installing fittings (such as fill ports, filters, pumps, shower heads, spouts, stop taps and other taps, strainers, toilets and traps) and testing the water system.

The unit applies to a person working in a recreational vehicle manufacturing facility who undertakes routine tasks according to job instructions, plans/specifications and procedures and with discretion and judgement in selecting equipment, services and contingency measures. They work with a high degree of self-direction and limited supervision. They apply known solutions to routine problems and report non-routine problems according to procedures. They are responsible for their output and have limited responsibility for the output of others.

Licensing and/or certification requirements may apply to some or all of this unit's elements, depending on the state/territory. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

None

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. Prepare to rough-in and fit-off water systems	1.1 Identify water system rough-in and fit-off requirements from job instructions 1.2 Select and check all required tools and equipment are ready to use 1.3 Gather water system and other items required by job specifications, and check they meet quality requirements and are ready for installation

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.4 Identify hazards and hazard controls and check the hazard controls are in place and operating 1.5 Check the recreational vehicle and work area are ready for roughing-in and fitting-off the water system
2. Install tanks	2.1 Confirm the tank locations from the job instructions 2.2 Install sensors to the tanks according to workplace procedures 2.3 Install tank supports, brackets and tanks according to workplace procedures 2.4 Check finished installation according to job instructions and quality requirements and rectify any deficiencies
3. Rough-in water systems	3.1 Run pipes from water sources to fitting-off locations as specified in pipe plans 3.2 Cut pipes to length, install joiners and connectors and fasten pipes in position according to workplace procedures 3.3 Connect pipes to water sources.
4. Fit-off water systems	4.1 Correctly position and fasten the water system fittings according to job specifications and manufacturer's instructions 4.2 Fit and seal drainage pipes to fit-off items to ensure water tightness
5. Test water systems	5.1 Test the mains water inlet and water pump, and rectify any leaks 5.2 Pressure-test pipes and water system fittings, and rectify any leaks 5.3 Test drains and rectify any faults or leaks
6. Complete the rough-in and fit-off according to workplace procedures	6.1 Clean up the recreational vehicle in readiness for the next task 6.2 Clean up the work area, identify items for recycling and dispose of waste 6.3 Identify, tag and report any damage to equipment and tools 6.4 Check, clean and do routine maintenance on equipment and tools and store them and unused materials 6.5 Complete task outcome documentation

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

Supersedes and is equivalent to MSMRV312 Fit water systems in a recreational vehicle.

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 MSMRV372 Rough-in and fit-off recreational vehicle water systems

Modification History

Release 1. Supersedes and is equivalent to MSMRV312 Fit water systems in a recreational vehicle. Changes to application, elements, performance criteria and assessment requirements. Range of conditions removed.

Performance Evidence

There must be evidence that the candidate has completed the tasks set out in the elements and performance criteria and has demonstrated the ability to rough-in and fit-off the water system of a recreational vehicle on at least three occasions, including at least two different layouts of water system.

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 3001 Electrical installations - Transportable structures and vehicles including their site supplies*
 - the *Road Vehicle Standards Act 2018*
 - Australian design rules
- types of recreational vehicle water systems and manufacturer's installation and use instructions for them
- which hand and power tools and equipment to use when roughing-in and fitting-off recreational vehicle water systems
- organisational procedures for:
 - roughing-in and fitting-off recreational vehicle water systems
 - communication and reporting
 - environmental protection and sustainability, including adhesives, dust, noise and waste
 - quality assurance
 - work health and safety, including personal protective equipment
 - work planning
- hazards that might arise in the work environment and their controls
- the most common issues that can arise when roughing-in and fitting-off recreational vehicle water systems and how to avoid and respond to them
- how to identify if recreational vehicle water systems are roughed-in and fitted-off correctly.
-

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 required to rough-in and fit-off recreational vehicle water systems including:
 - recreational vehicle chassis manufactured to the point of requiring the roughing-in and fitting-off of water systems
 - materials and items required for the tasks
 - hand and power tools and safety and other equipment
 - job instructions, workplace procedures and related forms, checklists or templates.

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

Links

Companion volume implementation guides are found in VETNet – -

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