



Australian Government

MSMRV390 Service and repair recreational vehicle LPG systems

Release: 1

MSMRV390 Service and repair recreational vehicle LPG systems

Modification History

Release 1. Supersedes and is equivalent to MSMRVS202 Repair/service LPG 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 service/repair liquid petroleum gas (LPG) systems with an operating pressure not exceeding 2.75 kPa in a recreational vehicle.

‘Service/repair’ includes servicing (such as conducting a routine seasonal or scheduled service) or repairing (such as accident repair, maintenance, repair or replacement of worn parts, breakdown, the identification and repair of faults, the removal and replacement of items or the installation of new items) or both.

The unit applies to a person working in a recreational vehicle service and repair facility who undertakes routine tasks according to work instructions, plans/specifications and procedures and uses discretion and judgement in selecting equipment, services or 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 or certification requirements for the service/repair of LPG systems vary across jurisdictions and must be followed. This unit of competency applies only if relevant state or territory licensing requirements permit the service/repair of LPG systems in a recreational vehicle. 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. Prepare to assess LPG systems	1.1 Identify the authorised scope of service/repair works from job instructions, service schedules and insurance requirements 1.2 Select and check all required tools and equipment are ready to use 1.3 Identify hazards and hazard controls and check the hazard controls are in place and operating 1.4 Check the recreational vehicle and work area are ready to assess the system
2. Assess LPG systems	2.1 Confirm the storage capacity and regulator size are adequate for the

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	load and comply with regulations and standards 2.2 Check and test the system's piping and ventilation for compliance with regulations and standards 2.3 Check the system's piping size is adequate for the dimensions and loads 2.4 Check the piping size of the main run and branches provides minimum inlet pressure to each appliance and complies with regulations and standards 2.5 Check appliances and cylinders are correctly positioned with the piping set out to comply with regulations and standards 2.6 Inspect the system and its immediate surrounds to identify damage or obstacles to new installation or reinstallation and determine any necessary repair work
3. Confirm the scope of work	3.1 Identify any additional repair work beyond the scope of the job instructions 3.2 Determine and communicate to a supervisor the extent of labour, materials and suppliers' services required for out-of-scope repairs 3.3 Provide further information and advice to support negotiation with external parties about out-of-scope repairs 3.4 Confirm the revised scope of work and amended job instructions
4. Service/repair LPG systems	4.1 Follow procedures for required work notices and communication with authorities 4.2 Organise the supply of items required by the scope of works, and check they meet quality requirements and are ready for installation 4.3 Complete service/repair tasks according to manufacturer's specifications, service manuals, regulations and standards 4.4 Position appliances so their air supply and ventilation comply with regulations and standards 4.5 Locate and check consumer instruction plates, labels and compliance plates to ensure they comply with regulations and standards
5. Test LPG systems	5.1 Adjust the regulator to ensure flow pressure complies with regulations and standards 5.2 Check and test the system and its ventilation for compliance with regulations and standards

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	5.3 Adjust the system to provide the correct flow pressure according to the manufacturer's instructions and standards 5.4 Record test data according to regulations and workplace procedures
6. Complete service/repair according to workplace procedures	6.1 Clean up the recreational vehicle and make it ready to hand back to the customer 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 MSMRVS202 Repair/service LPG 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 MSMRV390 Service and repair recreational vehicle LPG systems

Modification History

Release 1. Supersedes and is equivalent to MSMRVS202 Repair/service LPG 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:

- service the LPG system of a recreational vehicle on at least two occasions
- repair the LPG system of a recreational vehicle on at least two occasions.

On at least one of the above occasions, the initial assessment must identify the need for out-of-scope repairs.

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 technical information relevant to servicing/repairing recreational vehicle LPG systems and how to interpret that information
- types of recreational vehicle LPG systems and manufacturer's instructions for them, including for installation, use, service, troubleshooting and repair
- which hand and power tools and equipment to use when servicing/repairing recreational vehicle LPG systems
- workplace policies and procedures relevant to their job role and responsibilities including for:
 - servicing/repairing recreational vehicle LPG 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 servicing and repairing recreational vehicle LPG systems and how to avoid and respond to them
- how to identify if recreational vehicle LPG systems have been serviced/repaired 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:

- the use of suitable facilities and resources required to service/repair LPG systems including:
 - recreational vehicles with LPG systems in need of service/repair
 - materials and items required by the scope of works
 - hand and power tools and testing, adjusting and safety and other equipment
 - job instructions and workplace procedures.

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>