



Australian Government

MSMRV389 Service and repair recreational vehicle chassis, suspensions and braking systems

Release: 1

MSMRV389 Service and repair recreational vehicle chassis, suspensions and braking systems

Modification History

Release 1. Newly created unit.

Application

This unit describes the skills and knowledge required to service and repair the chassis, suspensions and braking systems of recreational vehicles including motorhomes, campervans, caravans and fifth-wheelers.

‘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.

The person should achieve suitable welding competencies before or while undertaking this unit.

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. Prepare to assess chassis, suspensions and braking 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 and confirm	2.1 Inspect the underbody, wheels and tyres to identify wear/damage and

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the scope of work	unsafe items, and determine any service/repair work required 2.2 Check braking mechanisms for appropriate operation and wear 2.3 Test electrical braking systems to ensure correct operation 2.4 Document any needed repair work beyond the scope of the job instructions 2.5 Determine and communicate to a supervisor the extent of labour, materials and suppliers' services required for out-of-scope repairs 2.6 Provide further information and advice to support negotiation with external parties about the out-of-scope repairs 2.7 Confirm the job instructions and seek approval for the final scope of works
3. Service/repair chassis	3.1 Follow procedures for required work notices and communication with authorities 3.2 Organise the supply of items required by the scope of works, and check they meet quality requirements and are ready for installation 3.3 Measure the chassis for squareness 3.4 Prepare, cut, assemble and weld chassis sections 3.5 Inspect recent and existing welds for soundness, and clean and apply coatings to chassis sections according to manufacturer's instructions
4. Service/repair suspensions and braking 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
5. Complete service/repair according to workplace procedures	5.1 Clean up the recreational vehicle in readiness for the next task 5.2 Clean up the work area, identify items for recycling and dispose of waste 5.3 Identify, tag and report any damage to equipment and tools 5.4 Check, clean and do routine maintenance on equipment and tools and store them and unused materials 5.5 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

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 MSMRV389 Service and repair recreational vehicle chassis, suspensions and braking systems

Modification History

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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/repair the chassis of a recreational vehicle on at least two occasions, the suspension on at least two occasions and the braking system on at least two occasions, including at least two occasions where the initial assessment identifies 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 recreational vehicle chassis, suspensions and braking 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 chassis, suspensions and braking systems
- workplace policies and procedures relevant to their job role and responsibilities including for:
 - servicing/repairing recreational vehicle chassis, suspensions and braking 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/repairing recreational vehicle chassis, suspensions and braking systems and how to avoid and respond to them
- how to identify if recreational vehicle chassis, suspensions and braking systems have been serviced/repared correctly.
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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 required to service/repair chassis, suspensions and braking systems including:
 - recreational vehicles with chassis, suspensions and braking systems in need of service/repair
 - testing, adjusting, safety and other hand and power tools and equipment
 - materials and items required for the tasks
 - job instructions and workplace procedures.

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

Links

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