



Australian Government

MSMRV380 Build towable recreational vehicle chassis

Release: 1

MSMRV380 Build towable recreational vehicle chassis

Modification History

Release 1. Supersedes and is not equivalent to MSMRV325 Fabricate a chassis and suspension for a recreational vehicle. Changes to application, elements, performance criteria and assessment requirements. Range of conditions removed. Workplace outcome has changed.

Application

This unit describes the skills and knowledge required to build a towable recreational vehicle chassis by fabricating the chassis and assembling and installing its suspension and braking system. Towable recreational vehicles include caravans, fifth wheelers, tent trailers, camper trailers and hybrids. The unit does not address building the chassis of a motorhome, a campervan or a slide-on camper.

The unit applies to a person working in a recreational vehicle manufacturing facility where chassis are manufactured on-site. The person undertakes routine tasks according to job instructions, plans/specifications and procedures and uses 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.

No licensing or certification requirements exist at the time of publication. 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 build chassis	1.1 Identify chassis building requirements from job and manufacturer's instructions 1.2 Select and check all required tools and equipment are ready to use 1.3 Gather chassis, suspension, braking system and other items required by job specifications, and check they meet quality requirements 1.4 Identify hazards and hazard controls and check the hazard controls are in place and operating

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Fabricate chassis	2.1 Assemble and align chassis components in the jig 2.2 Weld the chassis according to workplace procedures 2.3 Fit the vehicle identification number plate to the chassis 2.4 Clean the chassis and prepare it for coating according to manufacturer's instructions 2.5 Select, mix and prepare coatings according to job instructions 2.6 Apply coatings according to manufacturer's instructions
3. Assemble and install suspension and braking systems	3.1 Fit axles, hubs and rims onto the chassis according to the manufacturer's instructions 3.2 Assemble the suspension components and fit the suspension according to the manufacturer's instructions 3.3 Fit and tighten the wheels according to the manufacturer's instructions 3.4 Fit, wire and test the braking system according to the manufacturer's instructions 3.5 Check the chassis, suspension and braking system meet quality requirements and rectify any deficiencies
4. Complete the build according to workplace procedures	4.1 Clean up the work area, identify items for recycling and dispose of waste 4.2 Identify, tag and report any damage to equipment and tools 4.3 Check, clean and do routine maintenance on equipment and tools and store them and unused materials 4.4 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 MSMRV380 Build towable recreational vehicle chassis

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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 build at least three towable recreational vehicle chassis by fabricating them and assembling and installing their suspensions and braking systems.

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 towable recreational vehicle chassis, suspensions and braking systems and manufacturer's installation and use instructions for them
- which hand and power tools and equipment to use when building a towable recreational vehicle chassis
- workplace policies and procedures relevant to their job role and responsibilities including for:
 - building towable recreational vehicle chassis
 - 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 building towable recreational vehicle chassis and how to avoid and respond to them
- how to identify if a towable recreational vehicle chassis has been built 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 build a towable recreational vehicle chassis including:
 - materials and items required for the tasks
 - hand and power tools 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

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