



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **MSA40510 Certificate IV in Recreational Vehicles**

**Revision Number: 3**

## **MSA40510 Certificate IV in Recreational Vehicles**

### **Modification History**

Imported unit code updated.

Release 3 - MSACM units replaced by MSS units from MSS11v2 Sustainability Training Package. Imported unit version code updated.

## Description

This qualification covers the skills and knowledge required to facilitate the performance of, and to perform, high level manufacturing, service and repair tasks required for recreational vehicles.

### *Job roles/employment outcomes*

The Certificate IV in Recreational Vehicles has been developed as a post-trade level qualification for use in MSA07 Manufacturing Training Package. This qualification has been developed in response to an industry request. People with this qualification would be expected to lead work teams and provide supervision of people undertaking the manufacture, service and repair of recreational vehicles, including:

- motor homes
- caravans
- camper trailers
- slide-ons
- fifth wheelers

to meet Australian requirements, such as road worthiness and the Australian Design Rule (ADR). They will provide technical leadership as well as undertake some tasks themselves.

They may work in a service and repair facility or a manufacturer's factory. Work may include building a new recreational vehicle, repairs for an insurance claim or other repairs, modifying an existing recreational vehicle or undertaking routine servicing.

### *Application*

The sector typically manufactures, services and repairs recreational vehicles as required. This may apply to the recreational vehicle body, fittings and running gear. Repairs may be in response to a road (or other) accident, hail damage, vehicle modification or routine servicing. They may also specify and access outside specialist services, for example, for spray painting or licence requirements.

Recreational vehicles may be made from a frame (timber, aluminium or steel) and skin (aluminium or fibre composite) or a manufactured wall panel or some other technology. They are typically mounted on a steel chassis which may be manufactured by the recreational vehicle manufacturer or bought. Fittings are typically timber/particle board but may be any other suitable material.

People with this qualification may be expected to lead and also undertake one or more of:

- manufacture of a recreational vehicle
- insurance repairs
- other repairs
- work under warranty
- modifications/refits to the recreational vehicle
- routine servicing
- preparation of a recreational vehicle for sale/resale.

This work will generally be undertaken in a workshop environment or factory.

Training programs for this qualification are suitable to be undertaken as part of a formal training contract with an employer under an Australian Traineeship or Apprenticeship arrangement.

### ***Pathways into the qualification***

This qualification may be accessed by direct entry.

The units of competency contained within this qualification are common with other qualifications and credit should be granted towards this qualification where competency has already been achieved.

Credit should also be granted towards this qualification where competency has been achieved in units of competency contained within relevant skill sets.

The units of competency in this qualification reflect competencies which are practiced within the industry and recognition of prior learning (RPL) should be granted where there is sufficient evidence of competency from work-based experience.

### ***Pathways from the qualification***

Further qualification pathways from this qualification include MSA50510 Diploma of Recreational Vehicles.

### ***Additional qualification advice***

MSA41108 Certificate IV in Competitive Manufacturing is available for team leaders or others who need a more generalist qualification covering the application of good manufacturing practice and lean principles.

### ***Licensing considerations***

Units of competency in this qualification provide the underpinning knowledge and skills for various required licenses. Local regulations should be checked for details.

## **Pathways Information**

Not applicable.

## **Licensing/Regulatory Information**

Not applicable.

## **Entry Requirements**

Not applicable.

## Employability Skills Summary

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification</b>
Communication	<ul style="list-style-type: none"> <li>• Completing workplace documentation and records</li> <li>• Using communication technologies efficiently</li> <li>• Developing work instructions, specifications and procedures</li> <li>• Communicating with all team members</li> <li>• Demonstrating effective and appropriate communication and interpersonal skills when dealing with clients</li> <li>• Using most appropriate communication method given priority, cost and customer facilities</li> <li>• Accessing, interpreting and applying technical information</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• Working cooperatively with people of different ages, gender, race or religion</li> <li>• Liaising with and providing support to other team members</li> <li>• Working as part of a team</li> <li>• Identifying and managing performance required to meet internal and external customer needs in own work and team</li> <li>• Managing technical processes and providing problem-solving support to others</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>• Investigating problem causes</li> <li>• Identifying, rectifying or reporting potential difficulties associated with manufacture of products or provision of services</li> <li>• Identifying environmental features, regulations, insurance requirements, legal requirements and other factors which may affect the product or service to be provided</li> <li>• Using material and process knowledge to solve problems</li> <li>• Identifying hazards and suggesting control measures</li> <li>• Determining production requirements</li> <li>• Conducting tests and analysing results to determine and assess production requirements</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• Seeking feedback on products, processes and procedures</li> <li>• Gathering and analysing information and applying to work-related processes</li> <li>• Recording information on the quality and other indicators of products</li> <li>• Supporting achievement of efficient production processes</li> <li>• Determining and acting on situations requiring further information or problem solving</li> </ul>

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
Planning and organising	<ul style="list-style-type: none"> <li>Identifying hazards and implementing appropriate hazard control measures</li> <li>Demonstrating time-management skills</li> <li>Sourcing and preparing materials and resources</li> <li>Sequencing work to maximise safety and productivity</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>Interpreting and applying relevant Acts and regulations</li> <li>Keeping the work area clean and tidy at all times</li> <li>Monitoring own work and work of team, and identifying and acting on any quality issues</li> <li>Understanding own work activities</li> <li>Managing own time to meet deadlines</li> <li>Implementing workplace procedures and instructions</li> </ul>
Learning	<ul style="list-style-type: none"> <li>Implementing learning activities as appropriate to ensure achievement of specified production requirements</li> <li>Assessing competencies in meeting job requirements</li> <li>Being supportive and assertive, and using interpersonal skills</li> <li>Identifying own training needs and seeking skill development if required</li> <li>Gathering feedback on own work to assess effectiveness in meeting objectives and integrating information into own practice</li> </ul>
Technology	<ul style="list-style-type: none"> <li>Using computer software applications effectively</li> <li>Working with technology safely and according to workplace standards</li> <li>Helping others use technology efficiently and safely</li> <li>Using testing technology</li> </ul>

## Packaging Rules

### Packaging Rules

To be awarded the Certificate IV in Recreational Vehicles competency must be achieved in **thirty two (32)** units of competency:

- three (3)** core units of competency
- twenty nine (29)** elective units of competency, as specified below:
  - a minimum of **two (2)** units of competency must be selected from Group A
  - a maximum of **fourteen (14)** units of competency may be selected from Groups C and D, with a maximum of **six (6)** from Group D

- the balance of units must be selected from Groups A and B to bring the total to twenty nine (29).

**Note:** Up to **seven (7)** elective units of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, as specified in Groups A, B, C and D.

**Note:** Where prerequisite units are identified, they must be counted in the total number of units required for completion of the qualification.

### Core units of competency

Unit code	Unit title	Prerequisites
MSAENV272B	Participate in environmentally sustainable work practices	
MSAPMOHS200A	Work safely	
MSAPMSUP102A	Communicate in the workplace	

### Elective units of competency

#### Group A

Unit code	Unit title	Prerequisites
AURC365722A	Estimate complex jobs	
AURC465349A	Prepare written repair quotation	
AURV365356A	Read and interpret vehicle body repair estimation/quotation	
AURV465116A	Determine vehicle body damage and recommend repair procedures	
MEM03006B	Set assembly stations	MEM03001 B MEM18001 C
MEM16012A	Interpret technical specifications and manuals	

Unit code	Unit title	Prerequisites
MSARVS401A	Assess and quote to service a recreational vehicle	
Up to <b>one (1)</b> relevant elective unit of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, where it is available for inclusion at Certificate IV.		

### Group B

Unit code	Unit title	Prerequisites
AUM8081B	Apply trim to components	
AURE218670A	Service, maintain or replace batteries	
AURE218708A	Carry out repairs to single electrical circuits	
AURE220140A	Manufacture and repair wiring harness/looms	
AURE311666A	Repair electric braking systems	
AURT210170A	Inspect and service braking systems	
AURT216170A	Inspect and service suspension systems	
AURT217865A	Remove and refit wheel hubs and associated brake components	
AURT365508A	Carry out vehicle safety/roadworthy inspection	
AURV226965A	Remove and replace/fit protector mouldings, transfers and decals	
AURV230449A	Apply paint touchup techniques	
AURV324866A	Repair fibreglass/composite material components	
AURV328366A	Repair chassis/frame and associated components	
AURV331423CA	Fabricate and install canvas products	
AURV331423DA	Fabricate and install frame structures	
AURV331423GA	Fabricate and install canopies and curtains	



Unit code	Unit title	Prerequisites
AURV334031A	Install side windows	
MEM03001B	Perform manual production assembly	
MEM05005B	Carry out mechanical cutting	MEM12023 A MEM18001 C
MEM05012C	Perform routine manual metal arc welding	
MEM05050B	Perform routine gas metal arc welding	
MEM10002B	Terminate and connect electrical wiring	MEM09002 B MEM12002 B MEM18001 C
MEM12002B	Perform electrical/electronic measurement	
MEM12023A	Perform engineering measurements	
MEM18001C	Use hand tools	
MEM18002B	Use power tools/hand held operations	
MEM18038B	Maintain wheels and tyres	MEM18001 C
MEM18045B	Fault find/repair electrical equipment/components up to 250 volts single phase supply	MEM09002 B MEM10002 B MEM12002 B MEM12023 A MEM18001 C MEM18002

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
		B
MSAPMOPS101A	Make measurements	
MSARVS202A	Repair/service LP gas systems in a recreational vehicle	
PMBPROD221B	Operate rotational moulding equipment	
PMBPROD321B	Produce rotational moulded products	PMBPROD21B
Up to <b>two (2)</b> relevant elective units of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, where they are available for inclusion at Certificate IV.		

### Group C

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
AURC252327A	Identify, clarify and resolve problems	
AURC361101A	Adapt work processes to new technologies	
AURC561614A	Contribute to business improvement	
MEM13002B	Undertake occupational health and safety activities in the workplace	
MEM13010A	Supervise occupational health and safety in an industrial work environment	MEM13002B
MEM14001B	Schedule material deliveries	
MEM14002B	Undertake basic process planning	
MEM14003B	Undertake basic production scheduling	
MEM15002A	Apply quality systems	
MEM15004B	Perform inspection	
MEM15005B	Select and control inspection processes and procedures	MEM15004B

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
MEM16002C	Conduct formal interviews and negotiations	
MEM16006A	Organise and communicate information	
MEM22006A	Source and estimate materials	MEM16006A
MEM30013A	Assist in the preparation of a basic workplace layout	
MSS402002A	Sustain process improvements	
MSS402081A	Contribute to the application of a proactive maintenance strategy	
MSS403002A	Ensure process improvements are sustained	
MSS403011A	Facilitate implementation of competitive systems and practices	
MSS403021A	Facilitate a Just in Time system	
MSS403040A	Facilitate and improve implementation of 5S	
MSS403041A	Facilitate breakthrough improvements	
MSS403051A	Mistake proof an operational process	
MSS404082A	Assist in implementing a proactive maintenance strategy	
MSAENV472B	Implement and monitor environmentally sustainable work practices	
MSAPMSUP200A	Achieve work outcomes	
MSAPMSUP383A	Facilitate a team	
MSAPMSUP390A	Use structured problem solving tools	
PSPGOV408A	Value diversity	
TAEASS401A	Plan assessment activities and processes	
TAEASS402A	Assess competence	

Unit code	Unit title	Prerequisites
TAEASS403A	Participate in assessment validation	
TAEDEL301A	Provide work skill instruction	
Up to <b>two (2)</b> relevant elective units of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, where they are available for inclusion at Certificate IV.		

### Group D

Unit code	Unit title	Prerequisites
MEM09002B	Interpret technical drawing	
MEM11011B	Undertake manual handling	
MEM14004A	Plan to undertake a routine task	
MEM15024A	Apply quality procedures	
MSS402021A	Apply Just in Time procedures	
MSS402040A	Apply 5S procedures	
MSS402080A	Undertake root cause analysis	
MSAPMOHS220A	Provide initial first aid response	
MSAPMOPS212A	Use enterprise computers or data systems	
MSAPMSUP100A	Apply workplace procedures	
MSAPMSUP101A	Clean workplace or equipment	
MSAPMSUP106A	Work in a team	
MSAPMSUP280A	Manage conflict at work	
MSAPMSUP291A	Participate in continuous improvement	
MSARVS301A	Develop and update caravan industry knowledge	
MSARVG201A	Tow a recreational vehicle safely	

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
MSARVT201A	Apply technical knowledge of recreational vehicle manufacturing to work activities	
SIRXSLS002A	Advise on products and services	
TLID2010A	Operate a forklift	
UEGNSG604B	Fill gas cylinders	
Up to <b>two (2)</b> relevant elective units of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, where they are available for inclusion at Certificate IV.		