



Australian Government

Department of Education, Employment and Workplace Relations

MSA20610 Certificate II in Recreational Vehicle Manufacture

Revision Number: 3

MSA20610 Certificate II in Recreational Vehicle Manufacture

Modification History

Imported unit codes updated.

Version 3 - MSACM units replaced by MSS units from MSS11v2 Sustainability Training Package.

Description

This qualification covers the skills and knowledge required to perform the wide range of tasks performed in the manufacture of recreational vehicles.

Job roles/employment outcomes

The Certificate II in Recreational Vehicle Manufacture has been developed as an entry 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 work under supervision manufacturing 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 may work in a large manufacturing organisation or a smaller workshop.

Application

The sector typically manufactures recreational vehicles as required. This may include special/custom orders or standard manufacturer models. 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. Fittings are typically timber/particle board but may be any other suitable material.

People with this qualification may be expected to:

- carry out the various stages in recreational vehicle manufacture
- undertake modifications/refits to a recreational vehicle
- prepare a recreational vehicle for sale.

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

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 MSA30610 Certificate III in Recreational Vehicle Manufacture.

Additional qualification advice

MSA21108 Certificate II in Competitive Manufacturing and MSA30107 Certificate III in Process Manufacturing are 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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Employability Skill	Industry/enterprise requirements for this qualification
Communication	<ul style="list-style-type: none"> • Accessing and interpreting standardised documentation • Completing all reporting as required • Asking questions to increase understanding about workplace procedures • Reading and interpreting instructions • Responding to information • Accessing and using communication tools and equipment • Applying numeracy skills to work procedures
Teamwork	<ul style="list-style-type: none"> • Working effectively with others • Sharing information with peers • Understanding role of individual within team process • Seeking assistance with work operations as required
Problem solving	<ul style="list-style-type: none"> • Recognising common problems and report inconsistencies • Monitoring the job and making improvements • Responding to routine problems • Recommending improvements
Initiative and enterprise	<ul style="list-style-type: none"> • Taking correct action and following procedures • Recommending changes and improvements • Taking action to make improvements • Adopting changes in accordance with procedures
Planning and organising	<ul style="list-style-type: none"> • Planning own work • Organising processes, tools and materials • Monitoring own work outcomes • Organising and planning activities • Collecting and organising information for work activity
Self-management	<ul style="list-style-type: none"> • Conducting all activities according to safety standards • Maintaining housekeeping standards • Achieving planned outcomes within time constraints • Monitoring own work performance • Assessing own work • Seeking assistance where appropriate
Learning	<ul style="list-style-type: none"> • Asking questions to aid learning • Identifying own skill requirements • Asking questions to ensure understanding of own work requirements

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Technology	<ul style="list-style-type: none"> Using equipment and/or or information technology Identifying equipment appropriate for job Using simple measuring devices Collecting and applying data and information from technology
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Packaging Rules

Packaging Rules

To be awarded the Certificate II in Recreational Vehicle Manufacture competency must be achieved in **fourteen (14)** units of competency:

- three (3)** core units of competency
- eleven (11)** elective units of competency, as specified below:
 - a minimum of **seven (7)** units of competency must be selected from Group A
 - the balance of units, to a maximum of **four (4)** may be selected from:
 - units not previously selected from Group A
 - Group B units listed below.

Note: Up to **four (4)** elective units of competency may be selected from this Training Package, other endorsed Training Packages and accredited courses, as specified in Groups A and B.

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
AUM8081B	Apply trim to components	
AURE220140A	Manufacture and repair wiring harness/looms	
AURT365508A	Carry out vehicle safety/roadworthy inspection	
AURV226965A	Remove and replace/fit protector mouldings, transfers and decals	
AURV230449A	Apply paint touchup techniques	
AURV331423CA	Fabricate and install canvas products	
AURV331423DA	Fabricate and install frame structures	
AURV331423GA	Fabricate and install canopies and curtains	
AURV334031A	Install side windows	
MEM03001B	Perform manual production assembly	
MEM03003B	Perform sheet and plate assembly	MEM18001C MEM18002B
MEM05005B	Carry out mechanical cutting	MEM12023A MEM18001C
MEM05012C	Perform routine manual metal arc welding	
MEM05050B	Perform routine gas metal arc welding	
MEM05052A	Apply safe welding practices	
MEM07015B	Set computer controlled machines/processes	MEM07024B MEM07028B MEM09002B MEM12023A MEM18001C
MEM07024B	Operate and monitor machine/process	
MEM07028B	Operate computer controlled machines/processes	MEM07024B

Unit code	Unit title	Prerequisites
MEM10002B	Terminate and connect electrical wiring	MEM09002B MEM12002B MEM18001C
MEM11010B	Operate mobile load shifting equipment	
MEM12002B	Perform electrical/electronic measurement	
MEM12006C	Mark off/out (general engineering)	MEM09002B MEM12023A
MEM12023A	Perform engineering measurements	
MEM18001C	Use hand tools	
MEM18002B	Use power tools/hand held operations	
MSAPMOPS101A	Make measurements	
MSARVS201A	Install LP gas systems in a recreational vehicle	
Up to two (2) 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 II.		

Group B

Unit code	Unit title	Prerequisites
MEM09002B	Interpret technical drawing	
MEM11011B	Undertake manual handling	
MEM14004A	Plan to undertake a routine task	
MEM15004B	Perform inspection	
MEM15024A	Apply quality procedures	
MSS402021A	Apply Just in Time procedures	
MSS402040A	Apply 5S procedures	

Unit code	Unit title	Prerequisites
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	
MSARVT201A	Apply technical knowledge of recreational vehicle manufacturing to work activities	
PMBPROD221B	Operate rotational moulding equipment	
SIRXSLS002A	Advise on products and services	
TLID2010A	Operate a forklift	
Up to two (2) 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 II.		