



Australian Government

MSA30610 Certificate III in Recreational Vehicle Manufacture

Release 5

MSA30610 Certificate III in Recreational Vehicle Manufacture

Modification History

Release 5 - Imported elective unit updated to current release.

Release 4 - AU imported elective units replaced by current versions. Prerequisites replaced by an asterisk. Equivalent.

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

Release 2 - Imported unit code updated.

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 III in Recreational Vehicle Manufacture has been developed as a 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 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 will analyse the manufacturing requirements and then carry them out.

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 MSA40510 Certificate IV in 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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
Employability Skill	Industry/enterprise requirements for this qualification
Communication	<ul style="list-style-type: none"> • Maintaining communication about multiple subjects and with multiple audiences • Completing incident and other reports • Using technical and manufacturer information • Collecting, analysing and organising information • Communicating ideas and information • Using and contributing to workplace documentation • Maintaining workplace records
Teamwork	<ul style="list-style-type: none"> • Identifying and describing own role and role of others • Working within a team • Resolving conflicts between team members • Using teamwork strategies
Problem solving	<ul style="list-style-type: none"> • Recognising problems or potential problems • Determining problems needing priority action • Referring problems outside area of responsibility to appropriate person, with possible causes • Identifying appropriate theory base for problem • Seeking information and assistance as required to solve problems • Solving problems within area of responsibility • Following through items initiated until final resolution has occurred • Identifying and isolating faults in equipment • Using a range of formal problem-solving techniques
Initiative and enterprise	<ul style="list-style-type: none"> • Identifying the most appropriate process conditions for equipment • Determining problems needing action • Recommending required action • Reporting problems outside area of responsibility • Distinguishing between causes of faults
Planning and organising	<ul style="list-style-type: none"> • Prioritising actions to achieve required outcomes • Planning own work requirements and assisting others to plan theirs • Planning and organising activities • Identifying tasks to achieve team goals

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
	<ul style="list-style-type: none"> • Organising allocation of tasks • Monitoring completion of allocated tasks • Developing and adjusting a production schedule
Self-management	<ul style="list-style-type: none"> • Planning own work requirements from job requests • Operating within appropriate time constraints and work standards • Selecting and using appropriate equipment, materials, processes and procedures • Planning to ensure effective production • Applying standard procedures • Identifying documenting and monitoring resource requirements • Recognising limitations and seeking timely advice
Learning	<ul style="list-style-type: none"> • Asking questions to gain information • Identifying sources of information to expand knowledge and understanding • Participating in improvement procedures • Participating in development of continuous improvement strategies • Helping others develop competency
Technology	<ul style="list-style-type: none"> • Operating and adjusting equipment • Starting up and shutting down equipment • Setting up equipment • Monitoring quality • Understanding function and operating principles of equipment • Maintaining workplace records

Packaging Rules

Packaging Rules

To be awarded the Certificate III in Recreational Vehicle Manufacture competency must be achieved in **twenty two (22)** units of competency:

- **three (3)** core units of competency
- **nineteen (19)** elective units of competency, as specified below:
 - a minimum of **eight (8)** units of competency must be selected from Group A
 - the balance of units, to a maximum of **eleven (11)** 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
AUMGTT001	Apply trim to vehicle components	
AURETR2010	Fabricate, test and repair wiring harnesses and looms	
AURTTA3017	Carry out vehicle safety and roadworthy inspection	
AURVTN2005	Remove and fit protector mouldings, transfers and decals	
AURVTP2007	Apply paint touch-up techniques	
AURVTT3015	Fabricate canvas products	
AURVTT3016	Fabricate frame structures	
AURVTT3019	Fabricate and install canopies and curtains	
AURVTG3011	Install side windows	
MEM03001B	Perform manual production assembly	

Unit code	Unit title	Prerequisites
MEM03003B	Perform sheet and plate assembly	*
MEM05005B	Carry out mechanical cutting	*
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	Operate and monitor machine/process	
MEM07028B	Operate computer controlled machines/processes	*
MEM10002B	Terminate and connect electrical wiring	*
MEM11010B	Operate mobile load shifting equipment	
MEM12002B	Perform electrical/electronic measurement	
MEM12006C	Mark off/out (general engineering)	*
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 III.		

Group B

Unit code	Unit title	Prerequisites
MEM09002B	Interpret technical drawing	

Unit code	Unit title	Prerequisites
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	
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	
PMBPROD321B	Produce rotational moulded products	*
SIRXSLS002A	Advise on products and services	
TAEDEL301A	Provide work skill instruction	
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		

Unit code	Unit title	Prerequisites
inclusion at Certificate III.		