



**Australian Government**

# **MSA20610 Certificate II in Recreational Vehicle Manufacture**

**Release 5**

## **MSA20610 Certificate II in Recreational Vehicle Manufacture**

### **Modification History**

Release 5 - Imported elective unit updated to current release.

Release 4 - AU imported units updated. Prerequisites replaced by an asterisk. Equivalent.

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

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

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

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

**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**

| <b>Unit code</b> | <b>Unit title</b>  | <b>Prerequisites</b> |
|------------------|--|----------------------|
| 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                       |                      |
| 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                |                      |

| Unit code   | Unit title                                       | Prerequisites |
|---|--|---------------|
| 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 <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 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                      |               |
| 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             |               |



| Unit code   | Unit title   | Prerequisites |
|---|--|---------------|
| 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 <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 II. |  |               |