

AUR21011 Certificate II in Motorsport

Release: 2



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Modification History

One new AUR unit of competency:

AURTTE3001

One imported unit of competency updated:

MEM05017D replaces MEM05017C

Description

This qualification covers the skills and knowledge required to perform basic mechanical servicing and repairs for motorsport vehicles. It is suitable for entry into the motorsport industry.

Job roles/employment outcomes

The AUR21011 Certificate II in Motorsport offers training for individuals to perform vehicle servicing in a motorsport environment.

Employment outcomes targeted by this qualification include:

a junior member or general hand within a race team.

Application

This qualification is typically used to develop employees or recognise and develop existing workers who are performing vehicle service and repair functions in a motorsport environment.

They would be expected to perform a range of mechanical operations involving known routines, methods and procedures and take some accountability for the quality of outcomes.

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

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Pathways Information

Pathways into the qualification

This qualification may be accessed by direct entry. Credit may be granted towards this qualification by those who have completed AUR10105 Certificate I in Automotive in this Training Package or other relevant qualifications. Credit for this qualification may also include units contained within relevant skill sets.

Pathways from the qualification

Further training pathways from this qualification include AUR30911 Certificate III in Motorsport, AUR30408 Certificate III in Automotive Mechanical Technology or other relevant qualifications.

Licensing/Regulatory Information

Licensing considerations

There are no specific licences that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements, depending on the work context. Local regulations should be checked for details.

Entry Requirements

Not Applicable.

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Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills as identified by the Motorsport industry for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	understanding and carrying out verbal instructions from supervisors and others
	 reading and understanding workplace documents
	 completing written workplace documentation, forms and records
	 sharing work-related information with other team members
	 communicating with people from a range of social, cultural and ethnic backgrounds
	 seeking and acting upon feedback
	using industry terminology
Teamwork	 contributing positively to the work team environment
	 working effectively with others in a socially diverse environment
	 respecting and understanding the views of others
	giving and receiving feedback
	 identifying and describing own role and role of others
Problem-solving	recognising a problem or a potential problem within a motorsport environment
	 seeking information and assistance to solve problems outside own area of responsibility
	solving problems within own area of responsibility
Initiative and enterprise	making adjustments to improve own performance
materie and energine	 suggesting ideas for workplace improvement to supervisors and team members
	 positively adapting to changes in workplace procedures or arrangements
	 taking positive action to report hazards or risk situations to supervisors
Planning and organising	understanding how own job role fits into the wider workplace context
	 planning daily work tasks to work safely and manage risks according to workplace procedures
	 prioritising activities to achieve required outcomes
	 planning and organising appropriate equipment and materials

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EMPLOYABILITY SKIL	LS QUALIFICATION SUMMARY
Self-management	 following workplace safety requirements and other policies and procedures managing own time completing known delegated tasks on time completing non-routine tasks as requested selecting and using appropriate equipment, materials, processes and procedures asking for advice and assistance
Learning	 identifying personal strength and weaknesses positively accepting opportunities to learn acting upon feedback to improve work performance asking questions to gain information identifying sources of information to expand knowledge and understanding
Technology	 appropriately selecting and using tools and equipment recognising and reporting faulty equipment using information and communication technology

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Packaging Rules

Packaging Rules

To be awarded the AUR21011 Certificate II in Motorsport, competency must be achieved in **fifteen** (15) units of competency.

- **five** (5) core units of competency
- ten (10) elective units of competency, as specified below:
 - a minimum of seven (7) elective units from Group A
 - a maximum of three (3) elective units from Group B, drawn in any combination from:
 - units not already chosen from Group A
 - relevant units available in this Training Package, other endorsed Training Packages and accredited courses, where those unit are available for inclusion at Certificate II and III
 - a maximum of two (2) units of competency may be at Certificate III.

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

The following units of competency must not be chosen together when achieving this qualification:

MEM05003B	Perform soft soldering
AURV223808A	Carry out soft soldering techniques

MEM05004C	Perform routine oxy acetylene welding
AURV223608A	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures

MEM05007C	Perform manual heating and thermal cutting
	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures

MEM05017D	Weld using gas metal arc welding process
AURV281308A	Carry out gas metal arc (MIG) welding procedures

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Core units of competency

• Complete the following five (5) units of competency.

Unit code	Unit title	
AURC270103A	Apply safe working practices	
AURT271781A	Implement and monitor environmental regulations in the automotive mechanical industry	
AURM240080B	Operate in a motorsport environment	
AURM240172B	Set up and dismantle temporary work location and equipment	
MSAENV272B	Participate in environmentally sustainable work practices	

Elective units of competency Group A: Electives

• Complete a minimum of seven (7) units of competency from the following lists.

Brakes

Unit code	Unit title
AURT210170A	Inspect and service braking systems
AURT210605A	Attach friction materials and radius grind
AURT210736A	Machine brake drums and brake disc rotors

Electrical

Unit code	Unit title	
AURE218664A	Remove and replace electrical/electronic units/assemblies	
AURE218670A	Service, maintain or replace batteries	
AURE218676A	Test, service and charge batteries	
AURE218708A	Carry out repairs to single electrical circuits	
AURE218764A	Remove, refit and test electrical componentry for normal operation following body repair activities	
AURE219331A	Install, test and repair low voltage wiring/lighting systems	

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Unit code	Unit title
AURE219531A	Install ancillary electrical components
AURE220140A	Manufacture and repair wiring harness/looms
AURE224008A	Carry out soldering of electrical wiring/circuits

Engines, systems and transmissions

Unit code	Unit title	Prerequisites
AURT201164A	Remove and install engine assemblies	
AURT201170A	Inspect and service engines	
AURT202166B	Repair cooling systems	
AURT202170B	Inspect and service cooling systems	
AURT202608A	Carry out radiator repairs	
AURT203170B	Service petrol fuel systems	
AURT204670A	Inspect and service emission control systems	
AURT205123A	Fabricate exhaust system/components	
AURT205166A	Repair exhaust system components	
AURT206670A	Inspect and service transmissions (manual)	
AURT207170A	Inspect and service transmissions (automatic)	
AURT212670A	Service final drive assemblies	
AURT213170A	Service final drive (driveline)	
AURTTE3001	Apply knowledge of engine science	
MEM07005C	Perform general machining	MEM09002B MEM12023A
		MEM18001C

General mechanical

Unit code Unit title

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Unit code	Unit title
AURC252103A	Apply basic automotive troubleshooting processes
AURT200108A	Carry out servicing operations
AURT225156A	Read and interpret engineering drawings
AURT225191A	Produce drawings from design concepts
AURT225667A	Use and maintain measuring equipment
AURT270278A	Use and maintain workplace tools and equipment
AURV224508A	Carry out fabrication of components
MEM09002B	Interpret technical drawing
MEM12023A	Perform engineering measurements
MEM18001C	Use hand tools
MEM30012A	Apply mathematical techniques in a manufacturing, engineering or related environment

Motorsport

Unit code	Unit title
AURM240173A	Transport a light competition vehicle and support equipment
AURM240174A	Prepare and service a light competition vehicle

Motorsport officiating

Unit code	Unit title
AURMO2001A	Develop and update motorsport industry knowledge
AURMO2002A	Follow motorsport safety and risk management procedures
AURMO2003A	Comply with motorsport rules and regulations when officiating
AURMO2004A	Assist with motorsport officiating duties

Steering and suspension

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Unit code	Unit title
AURT215130A	Inspect steering systems
AURT215170A	Inspect and service steering systems
AURT216130A	Inspect suspension systems
AURT216170A	Inspect and service suspension systems

Tyres, rims and wheels

Unit code	Unit title
AURT217606A	Balance wheels and tyres
AURT217665A	Remove, fit and inspect wheel assemblies
AURT217668A	Select tyres and rims for specific applications (light)
AURT217766A	Remove, inspect, repair and fit tyres and tubes (light)

Welding

Unit code	Unit title	Prerequisites
AURV223608A	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures	
AURV223808A	Carry out soft soldering techniques	
AURV281108A	Carry out manual metal arc welding procedures	
AURV281208A	Carry out brazing procedures	
AURV281308A	Carry out gas metal arc (MIG) welding procedures	
AURV281408A	Carry out gas tungsten arc (TIG) welding procedures	
AURV281508A	Carry out spot welding procedures	
AURV323908A	Carry out thermoplastic welding procedures	
MEM05003B	Perform soft soldering	

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Unit code	Unit title	Prerequisites
MEM05004C	Perform routine oxy acetylene welding	
MEM05007C	Perform manual heating and thermal cutting	
MEM05050B	Perform routine gas metal arc welding	
MEM05017D	Weld using gas metal arc welding process	MEM05050B MEM05051A MEM05052A MEM12023A MEM18001C MEM18002B MEM09002B

Group B: Other electives

The balance of units, to a maximum of three (3), may be drawn in any combination from:

- units not already chosen from Group A above
- relevant units available in this Training Package, other endorsed Training Packages and accredited courses, where those units are available at Certificate II and III.

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