



Australian Government

Department of Education, Employment and Workplace Relations

AUM40112 Certificate IV in Automotive Manufacturing

Release: 1

AUM40112 Certificate IV in Automotive Manufacturing

Modification History

AUM40112 Release 1 - replaces AUM40108 Certificate IV in Automotive Manufacturing - Automotive Development (Passenger Motor Vehicle) *and* AUM45108 Certificate IV in Automotive Manufacturing (Bus, Truck and Trailer)

Description

This qualification covers the skills and knowledge required to become a Lead Technician within the automotive manufacturing sector. This qualification is suitable for automotive manufacturing including passenger motor vehicle and bus, truck and trailer industries.

Job roles or employment outcomes

This qualification is a post-trade level qualification in the automotive manufacturing industry. It is designed for a Lead Technician covering a range of specialised functions.

Pathways Information

Pathways into the qualification

Preferred pathways for individuals entering this qualification are AUM30112 Certificate III in Automotive Manufacturing Technical Operations – Passenger Motor Vehicle, AUM30212 Certificate III in Automotive Manufacturing Technical Operations – Bus, Truck and Trailer or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUM50112 Diploma of Automotive Manufacturing or other relevant qualifications.

Licensing/Regulatory Information

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

Those undertaking AUM40112 Certificate IV in Automotive Manufacturing are required to have AUMGQA3001 Inspect work and apply organisation technical quality standards, or be able to demonstrate equivalent competency.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills required by the automotive manufacturing 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	<ul style="list-style-type: none">gathering, conveying and receiving verbal and written informationcommunicating ideas and information to enable confirmation of work requirements and specifications
Teamwork	<ul style="list-style-type: none">working with colleagues to produce workplace documentsunderstanding dependencies in teams and using cooperative approaches
Problem solving	<ul style="list-style-type: none">using checking techniques to anticipate problems and avoid interruptions to work flows or processes
Initiative and enterprise	<ul style="list-style-type: none">applying best practice work processes within the organisationbeing proactive in overcoming work blockages
Planning and organising	<ul style="list-style-type: none">planning and organising activities to ensure tasks are completed on time
Self-management	<ul style="list-style-type: none">behaving in ways that contribute to an effective and safe working environmentidentifying own roles and responsibilitiessatisfying competency requirements for the job
Learning	<ul style="list-style-type: none">listening to ideas and opinions of other members of the teamseeking learning opportunities
Technology	<ul style="list-style-type: none">operating a range of workplace technology related to tools, equipment and measuring devicesidentifying and responding to equipment faults

Packaging Rules

To achieve this qualification, competency must be demonstrated in **10 units** of competency, consisting of:

- **3 core units**

plus

- **7 elective units**, of which:
 - all units from either Group A or Group B

plus

- 4 elective units may be chosen from the elective units listed below
- up to 2 units may be drawn from a Certificate III qualification or above in this Training Package, another endorsed Training Package or accredited course, provided that the units chosen contribute to the vocational outcome of this qualification and do not duplicate the outcome of another unit selected for this qualification

Core units

Unit code	Unit title
Common - Teamwork, Supervision and Management - Manufacture	
AUMAMM3001	Influence and lead work groups in an automotive manufacturing environment
Passenger Vehicle - Teamwork, Supervision and Management - Manufacture	
AUMFMM3003	Plan and organise production
Imported units	
MSACMT441A	Facilitate continuous improvement in manufacturing

Group A

Unit code	Unit title
Common - Quality	
AUMAQA4001	Apply quality assurance techniques
Common - Technical	
AUMATA3002	Conduct final inspections and functional tests
AUMATA4006	Provide technical advice

Group B

Unit code	Unit title	Pre-requisites
Imported units		
MSACMC411A	Lead a competitive manufacturing team	
MSACMT440A	Lead 5S in a manufacturing environment	
MSACMT453A	Use six sigma techniques	MSACMT452A

Elective units

Unit code	Unit title	Pre-requisites
Common - Support and Logistics - Manufacture		
AUMABM4001	Control stock	
Common - Technology (Computing) - Manufacture		
AUMAKM4001	Program and monitor computerised equipment	
AUMAKM5002	Produce computer-aided drawings	
Common - Teamwork, Supervision and Management		
AUMAMA4003	Prepare new product designs	
Common - Loss Assessment or Repair Quoting		
AUMANA3001	Prepare and document quotation	
Common - Health and Safety		
AUMASA2001	Monitor and maintain a safe workplace and environment	
Common - Technical		
AUMATA2001	Develop and produce documentation and procedures	
AUMATA4007	Conduct simulated or road performance test	
AUMATA5008	Produce drawings manually	

Unit code	Unit title	Pre-requisites
Common - Technical - Tools and Equipment		
AUMATK4004	Use measuring equipment	
AUMATK4005	Calibrate measuring equipment in automotive development	
AUMATK4006	Test plant, tooling, equipment, product or systems	
AUMATK4007	Install plant, equipment or systems	
AUMATK4008	Maintain plant, tooling, equipment or systems	
AUMATK4009	Repair plant, tooling, equipment or systems	
AUMATK4010	Manufacture or modify plant, tooling, equipment or systems	
AUMATK4011	Interpret manuals, drawings and circuits for plant, tooling, equipment or systems	
Common - Technical - Electrical and Electronic		
AUMATR4002	Use sensors to acquire motor vehicle data for development purposes	
Common - Technical - Welding, Grinding, Machining and Soldering		
AUMATW4002	Conduct welding inspection	
Passenger Vehicle - Technical		
AUMFTA3001	Document designs	
AUMFTA4005	Analyse a test vehicle for research purposes	
Imported units		
AURC472082A	Plan and manage compliance with environmental regulations in a workplace or business	
AURM441976B	Test engines using a dynamometer	
AURT466208A	Carry out diagnosis of complex system faults	
BSBLED401A	Develop teams and individuals	

Unit code	Unit title	Pre-requisites
BSBPMG403A	Apply cost management techniques	
BSBRKG304B	Maintain business records	
BSBRSK401A	Identify risk and apply risk management processes	
ICAICT103A	Use, communicate and search securely on the internet	
MSACMC210A	Manage the impact of change on own work	
MSACMS201A	Sustain process improvements	
MSACMS400A	Implement a competitive manufacturing system	
MSACMS401A	Ensure process improvements are sustained	
MSACMT220A	Apply quick changeover procedures	
MSACMT230A	Apply cost factors to work practices	
MSACMT231A	Interpret product costs in terms of customer requirements	
MSACMT250A	Monitor process capability	
MSACMT251A	Apply quality standards	
MSACMT260A	Use planning software systems in manufacturing	
MSACMT261A	Use SCADA systems in manufacturing	
MSACMT280A	Undertake root cause analysis	
MSACMT421A	Facilitate a Just In Time (JIT) system	
MSACMT430A	Improve cost factors in work practices	
MSACMT432A	Analyse manual handling processes	
MSACMT451A	Mistake proof a production process	
MSACMT452A	Apply statistics to processes in manufacturing	
MSACMT460A	Facilitate the use of planning software systems in manufacturing	MSACMT260A
MSAPMSUP390A	Use structured problem solving tools	

Unit code	Unit title	Pre-requisites
MSS404050A	Undertake process capability improvements	MSS404052 A

Custom Content Section

Not applicable.