



Australian Government

AUR30412 Certificate III in Agricultural Mechanical Technology

Release: 1

AUR30412 Certificate III in Agricultural Mechanical Technology

Modification History

Release	Comment
Release 1	Replaces AUR30405 Certificate III in Automotive Mechanical Technology

Description

This qualification covers the skills and knowledge required to perform a broad range of tasks on a variety of agricultural vehicles.

Job roles and employment outcomes

The Certificate III in Agricultural Mechanical Technology is intended to prepare new employees or recognise and develop existing workers performing mechanical work in the agricultural vehicle and equipment service and repair sector.

Employment outcomes targeted by this qualification include:

- agricultural mechanical technicians

Application

This qualification is suitable for an Australian Apprenticeship pathway.

Pathways Information

Pathways into the qualification

Credit may be granted towards this qualification by those who have completed AUR20512 Certificate II in Automotive Servicing Technology, AUR20712 Certificate II in Automotive Vocational Preparation or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUR40212 Certificate IV in Automotive Mechanical Diagnosis, AUR40812 Certificate IV in Automotive Mechanical Overhauling 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

This qualification may be accessed by direct entry.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
<p>The following table contains a summary of the employability skills as identified by the automotive industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.</p>	
Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • clearly communicating workplace information and ideas with workplace colleagues (verbal and non-verbal), including use of automotive terms • completing workplace reports • using and contributing to workplace procedures • maintaining workplace records • communicating with colleagues and clients to handle verbal enquiries, such as clarifying instructions and responding to requests for information • interpreting the needs of customers • reading and interpreting workplace related documentation
Teamwork	<ul style="list-style-type: none"> • identifying and describe own role and role of others • working within a team • working with diverse individuals and groups • applying knowledge of own role to complete activities efficiently to support team activities and tasks
Problem solving	<ul style="list-style-type: none"> • recognising a workplace problem or a potential problem and take action • determining problems needing priority action • referring problems outside area of responsibility to appropriate person and suggesting possible causes • seeking information and assistance as required to solve problems • using a range of problem-solving techniques • taking action to resolve concerns • developing practical responses to common breakdowns in workplace systems and procedures
Initiative and enterprise	<ul style="list-style-type: none"> • adapting to new and emerging situations in the workplace • being proactive and creative in responding to workplace problems, changes and challenges
Planning and organising	<ul style="list-style-type: none"> • planning own work requirements and prioritising actions to achieve required outcomes and ensure tasks are completed on time • identifying risk factors and taking action to minimise risk

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the employability skills as identified by the automotive 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:
Self-management	<ul style="list-style-type: none"> • selecting and using appropriate equipment, materials, processes and procedures • recognising limitations and seeking timely advice • planning own work requirements, setting own work program and managing time to ensure tasks are completed on time • following workplace documentation, such as codes of practice or operating procedures
Learning	<ul style="list-style-type: none"> • asking questions to gain information • identifying sources of information, assistance and expert knowledge to expand knowledge, skills and understanding • participating in self-improvement activities • participating in development of workplace continuous improvement strategies • helping others develop competency
Technology	<ul style="list-style-type: none"> • operating diagnostic and test equipment • performance testing of components, systems and equipment • using tools and equipment efficiently and safely • storing and caring for components, parts, tools, test equipment and support equipment • using business technology to collect, analyse and provide information

Packaging Rules

To be awarded this qualification, competency must be demonstrated in **36 units** of competency, comprising of:

- **24 core units**

plus

- **12 elective units**, of which:

- up to **12** elective units may be chosen from the elective units listed below
- up to **6** elective units may be chosen from a Certificate II qualification or above in this Training Package or 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 chosen for the qualification.

Core units

Unit code	Unit title
Common - Sales and Marketing	
AURACA2001	Establish relations with customers
Common - Environment	
AURAEA3003	Monitor environmental and sustainability best practice in the automotive mechanical industry
Common - Foundation Skills	
AURAF2003	Communicate effectively in an automotive workplace
Common - Health and Safety	
AURASA2002	Apply safe working practices in an automotive workplace
Electrical - Technical - Electrical and Electronic	
AURETR2012	Test and repair basic electrical circuits
AURETR3025	Test, charge and replace batteries
AURETR3029	Diagnose and repair charging systems
AURETR3030	Diagnose and repair starting systems
Mechanical - Heavy Vehicle - Technical - Steering and Suspension	
AURHTD3002	Repair steering systems (heavy vehicle)

Unit code	Unit title
Mechanical - Heavy Vehicle - Technical - Engines	
AURHTE3002	Repair engines and associated engine components (heavy vehicle)
Mechanical - Heavy Vehicle - Technical - Driveline and Final Drives	
AURHTQ3002	Repair final drive assemblies (heavy vehicle)
AURHTQ3003	Repair final drive - driveline (heavy vehicle)
Mechanical - Mobile Plant- Technical - Brakes	
AURKTB3001	Diagnose and repair mobile plant braking systems
Mechanical - Mobile Plant- Technical - Transmission	
AURKTX3001	Diagnose and repair powershift transmissions
Mechanical Miscellaneous - Technical	
AURTTA2004	Carry out servicing operations
AURTTA2005	Select and use bearings, seals, gaskets, sealants and adhesives
AURTTA3013	Repair hydraulic systems
AURTTA3018	Carry out diagnostic procedures
Mechanical Miscellaneous - Technical - Brakes	
AURTTB2001	Inspect and service braking systems
Mechanical Miscellaneous - Technical - Cooling Systems	
AURTTC3003	Diagnose and repair cooling systems
Mechanical Miscellaneous - Technical - Engines	
AURTTE2004	Inspect and service engines
Mechanical Miscellaneous - Technical - Fuel Systems	
AURTTF2002	Service diesel fuel injection systems
AURTTF3004	Repair diesel fuel injection systems
Mechanical Miscellaneous - Technical - Tools and Equipment	

Unit code	Unit title
AURTTK2002	Use and maintain workplace tools and equipment

Elective units

Unit code	Unit title
Electrical - Technical - Electrical and Electronic	
AURETR3024	Diagnose and repair electronic compression ignition engine management systems
Electrical - Technical - Air conditioning and HVAC	
AURETU2003	Service air conditioning and HVAC systems
AURETU3004	Diagnose and repair air conditioning and HVAC systems
AURETU3005	Retrofit and modify air conditioning and HVAC systems
Mechanical - Heavy Vehicle - Technical - Steering and Suspension	
AURHTD3003	Repair suspension systems (heavy vehicle)
Mechanical - Heavy Vehicle - Technical - Engines	
AURHTE2001	Remove and install heavy vehicle engine assemblies
Mechanical - Heavy Vehicle - Technical - Wheels and Tyres	
AURHTJ2003	Remove, inspect and refit heavy vehicle wheel assemblies
Mechanical - Heavy Vehicle - Technical - Transmission	
AURHTX3001	Repair transmissions - manual (heavy vehicle)
AURHTX3004	Diagnose and repair heavy vehicle clutch systems
Mechanical - Heavy Vehicle - Technical - Emission and Exhaust	
AURHTZ3001	Diagnose and repair heavy vehicle emission control systems
Mechanical - Mobile Plant- Technical	
AURKTA3001	Synchronise plant and equipment

Unit code	Unit title
AURKTA3002	Inspect, service and repair harvesting equipment
AURKTA3003	Inspect, service and repair crop planting and seeding equipment
AURKTA3004	Inspect, service and repair spraying and spreading equipment
AURKTA3005	Inspect, service and repair tracked type drive and support systems
Mechanical - Mobile Plant- Technical - Driveline and Final Drives	
AURKTQ3001	Diagnose and repair mobile plant final drive assemblies
Mechanical Miscellaneous - Technical	
AURTTA2006	Service hydraulic systems
AURTTA2007	Inspect, service and repair pneumatic systems
AURTTA3011	Install hydraulic systems to specified applications
AURTTA3012	Manufacture and install fluid power hose assemblies
AURTTA3014	Assemble and install pneumatic systems and components
Mechanical Miscellaneous - Technical - Brakes	
AURTTB2004	Inspect and service air braking systems
Mechanical Miscellaneous - Technical - Steering and Suspension	
AURTTD2002	Inspect and service steering systems
AURTTD2004	Inspect and service suspension systems
Mechanical Miscellaneous - Technical -Fuel Systems	
AURTTF3005	Inspect and repair engine forced induction systems
Mechanical Miscellaneous - Technical - Tools and Equipment	
AURTTK2001	Use and maintain measuring equipment in an automotive workplace
Mechanical Miscellaneous - Technical - Driveline and Final Drives	
AURTTQ2001	Service final drive assemblies
AURTTQ2003	Service final drive (driveline)

Unit code	Unit title
Mechanical Miscellaneous - Technical - Transmission	
AURTTX2002	Inspect and service transmissions (manual)
AURTTX2004	Service transmissions (hydrostatic)
AURTTX3006	Repair transmissions (hydrostatic)
Mechanical Miscellaneous - Technical - Emission and Exhaust	
AURTTZ2002	Repair exhaust system components
Vehicle Body - Technical - Welding, Grinding, Machining and Soldering	
AURVTW2001	Carry out manual metal arc welding procedures
AURVTW2003	Carry out gas metal arc welding procedures
AURVTW2004	Carry out gas tungsten arc welding procedures
AURVTW2008	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures

Custom Content Section

Not applicable.