



Australian Government

AUR30420 Certificate III in Agricultural Mechanical Technology

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Modification History

Release	Comments
5	Minor update to qualification to include additional elective units Superseded elective units updated
4	Minor update to qualification to include additional elective units
3	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0. Minor update to qualification to include additional elective units and rectify typographical errors.
2	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.1. The following elective units of competency have been deleted as directed by the AISC: • AURTTA015 Produce engineering drawings for vehicle components • AURTTL006 Install LNG fuel systems. The above training products were identified as having zero enrolments over a three year period.
1	This qualification was first released in AUR Automotive Retail, Service and Repair Training Package Release 6.0.

Qualification Description

This qualification reflects the role of individuals who perform a broad range of tasks on a variety of agricultural machinery in the automotive retail, service and repair industry.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 36

21 core units, plus

15 elective units, of which:

- all **15** units may be from the elective units listed below
- up to **6** units may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course.

Elective units chosen must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid vocational outcome.

Core Units

- AURACA101 Respond to customer needs and enquiries in an automotive workplace
- AURAEA002 Follow environmental and sustainability best practice in an automotive workplace
- AURASA102 Follow safe working practices in an automotive workplace
- AURETR112 Test and repair basic electrical circuits
- AURETR125 Test, charge and replace batteries and jump-start vehicles
- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURKTA111 Diagnose and repair mobile plant hydraulic systems
- AURKTB101 Diagnose and repair mobile plant braking systems
- AURKTD102 Diagnose and repair mobile plant steering systems
- AURKTQ101 Diagnose and repair mobile plant final drive assemblies
- AURKTX101 Diagnose and repair powershift transmissions
- AURTTA104 Carry out servicing operations
- AURTTA118 Develop and carry out diagnostic test strategies

- AURTTB101 Inspect and service braking systems
- AURTTC103 Diagnose and repair cooling systems
- AURTTE104 Inspect and service engines
- AURTTF102 Inspect and service diesel fuel injection systems
- AURTTK102 Use and maintain tools and equipment in an automotive workplace

Elective Units

- AURAF103 Communicate effectively in an automotive workplace
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETH018 Inspect and maintain hydrogen fuel cell system*
- AURETH101 Depower and reinitialise battery electric vehicles
- AURETR051 Diagnose, repair and replace precision agriculture systems
- AURETR052 Apply knowledge of Advanced Driver Assistance Systems (ADAS)
- AURETR120 Diagnose and repair network electronic control systems
- AURETR121 Diagnose, repair and replace heavy vehicle electronic management, monitoring and tracking systems
- AURETR124 Diagnose and repair compression ignition engine management systems
- AURETR132 Diagnose and repair automotive electrical systems
- AURETU103 Service air conditioning and HVAC systems
- AURETU104 Diagnose and repair air conditioning and HVAC components
- AURETU105 Retrofit automotive air conditioning and HVAC systems
- AURHTD103 Diagnose and repair heavy vehicle suspension systems
- AURHTE001 Remove and install heavy vehicle engine assemblies
- AURHTJ008 Select agricultural equipment tyres, wheels and rims
- AURHTJ009 Remove, inspect and refit agricultural equipment wheel and tyre assemblies
- AURHTJ203 Remove, inspect and refit heavy vehicle wheel and tyre assemblies
- AURHTJ204 Remove, inspect, repair and refit agricultural equipment tyres and tubes
- AURHTJ206 Remove, inspect, repair and refit heavy vehicle tyres
- AURHTL101 Inspect, diagnose and repair alternative fuel systems in heavy vehicle engines
- AURHTQ102 Diagnose and repair heavy commercial vehicle final drive assemblies
- AURHTQ103 Diagnose and repair heavy vehicle drive shafts

- AURHTX101 Diagnose and repair heavy vehicle manual transmissions
- AURHTX104 Diagnose and repair heavy vehicle clutch systems
- AURHTZ101 Diagnose and repair heavy vehicle emission control systems
- AURKTA001 Synchronise plant and equipment
- AURKTA002 Inspect, service and repair crop harvesting equipment
- AURKTA003 Inspect, service and repair crop planting and seeding equipment
- AURKTA004 Inspect, service and repair spraying and spreading equipment
- AURKTA005 Inspect, service and repair track type drive and support systems
- AURKTA010 Inspect, service and repair hay cutting, raking and baling equipment
- AURKTD101 Diagnose and repair mobile plant suspension systems
- AURKTX104 Diagnose and repair continuously variable transmissions
- AURTTA006 Inspect and service hydraulic systems
- AURTTA007 Inspect, service and repair pneumatic systems
- AURTTA011 Install hydraulic systems to specified applications
- AURTTA012 Fabricate and install fluid power hose assemblies
- AURTTA014 Assemble and install pneumatic system components
- AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
- AURTTB004 Inspect and service air braking systems
- AURTTD002 Inspect and service steering systems
- AURTTD004 Inspect and service suspension systems
- AURTTF105 Diagnose and repair engine forced-induction systems
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURTTL003 Install CNG fuel systems
- AURTTL009 Install LPG fuel systems
- AURTTL104 Inspect and service LNG fuel systems
- AURTTL105 Diagnose and repair LNG fuel systems
- AURTTQ001 Inspect and service final drive assemblies
- AURTTQ103 Inspect and service drive shafts
- AURTTX102 Inspect and service manual transmissions
- AURTTX104 Inspect and service hydrostatic transmissions
- AURTTX106 Diagnose and repair hydrostatic transmissions
- AURTTZ102 Diagnose and repair exhaust systems

- AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting
- AURVTW101 Carry out manual metal arc welding on components
- AURVTW103 Carry out advanced gas metal arc welding on vehicle body sections
- AURVTW104 Carry out tungsten inert gas welding
- AURVTW109 Carry out basic gas metal arc welding

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
AURETH018 Inspect and maintain hydrogen fuel cell system	AURETH017 Work safely with hydrogen in the automotive industry AURETH101 Depower and reinitialise battery electric vehicles

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AUR30420 Certificate III in Agricultural Mechanical Technology	AUR30416 Certificate III in Agricultural Mechanical Technology		Equivalent

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/AUR>.