



**Australian Government**

# **AUR30420 Certificate III in Agricultural Mechanical Technology**

**Release 3**

## AUR30420 Certificate III in Agricultural Mechanical Technology

### Modification History

Release	Comments
Release 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.
Release 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: <ul style="list-style-type: none"> <li>• AURTTA015 Produce engineering drawings for vehicle components</li> <li>• AURTTL006 Install LNG fuel systems.</li> </ul> The above training products were identified as having zero enrolments over a three year period.
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 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.

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  
AURETR051 Diagnose, repair and replace precision agriculture systems  
AURETR120 Diagnose and repair network electronic control systems  
AURETR121 Diagnose, repair and replace 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 commercial vehicle suspension systems  
AURHTE001 Remove and install heavy vehicle engine assemblies  
AURHTJ103 Remove, inspect and refit heavy vehicle wheel and tyre assemblies  
AURHTJ104 Remove, inspect, repair and refit agricultural equipment tyres and tubes  
AURHTJ106 Remove, inspect, repair and refit heavy vehicle tyres and tubes  
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

## **Qualification Mapping Information**

Supersedes and is equivalent to AUR30416 Certificate III in Agricultural Mechanical Technology.

## **Links**

Companion Volume Implementation Guide is found in VETNet -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>