



Australian Government

AUR31220 Certificate III in Mobile Plant Technology

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Modification History

Release	Comments
4	Elective bank revised to include updated units
3	Superseded elective units updated and new elective units added.
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: • AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems • 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 mobile plant 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

9 core units, plus

27 elective units of which:

all units in one of the Specialist Elective Groups A to C must be selected:

- Group A: Mobile Plant Equipment
- Group B: Forklift
- Group C: Elevating Work Platform

Specialisation - Certificate III in Mobile Plant Technology (Mobile Plant Equipment)

9 core units, plus

27 elective units, of which:

- Select all 13 units from Group A Mobile Plant Equipment, plus.
- Of the remaining units required to make up the elective unit total:
 - all may be from the Specialist Elective Groups and general elective units listed below
 - up to **6** may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course

Specialisation - Certificate III in Mobile Plant Technology (Forklift)

9 core units, plus

27 elective units, of which:

- Select all 9 units from Group B Forklift, plus.
- Of the remaining units required to make up the elective unit total:
 - all may be from the Specialist Elective Groups and general elective units listed below
 - up to **6** may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course

Specialisation - Certificate III in Mobile Plant Technology (Elevating Work Platform)

9 core units, plus

27 elective units, of which:

- Select all 11 units from Group C Elevating Work Platform, plus.
- Of the remaining units required to make up the elective unit total:
 - all may be from the Specialist Elective Groups and general elective units listed below
 - up to **6** 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.

The achievement of a specialisation will be identified on testamurs as follows:

- AUR31220 Certificate III in Mobile Plant Technology (Mobile Plant Equipment)
- AUR31220 Certificate III in Mobile Plant Technology (Forklift)
- AUR31220 Certificate III in Mobile Plant Technology (Elevating Work Platform)

Core Units

- 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
- AURTTA006 Inspect and service hydraulic systems
- AURTTA104 Carry out servicing operations
- AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
- AURTTA118 Develop and carry out diagnostic test strategies
- AURTTK102 Use and maintain tools and equipment in an automotive workplace

Specialist Elective Units

Group A: Mobile Plant Equipment

- AURETR124 Diagnose and repair compression ignition engine management systems
- 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
- AURKTA005 Inspect, service and repair track type drive and support 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
- AURTTC103 Diagnose and repair cooling systems
- AURTTF105 Diagnose and repair engine forced-induction systems

Group B: Forklift

- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURNTA001 Inspect, service and repair forklift mast assemblies
- AURNTB101 Diagnose and repair forklift hydraulic braking systems
- AURNTD101 Diagnose and repair forklift hydrostatic steering systems
- AURTTA113 Diagnose and repair hydraulic systems
- AURTTB101 Inspect and service braking systems
- AURTTTC103 Diagnose and repair cooling systems
- AURTTE104 Inspect and service engines

Group C: Elevating Work Platform

- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURHTQ102 Diagnose and repair heavy commercial vehicle final drive assemblies
- AURHTQ103 Diagnose and repair heavy vehicle drive shafts
- AURLTB103 Diagnose and repair light vehicle hydraulic braking systems
- AURTTA113 Diagnose and repair hydraulic systems
- AURTTB101 Inspect and service braking systems
- AURTTE104 Inspect and service engines
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURVTW101 Carry out manual metal arc welding on components
- AURVTW109 Carry out basic gas metal arc welding

General Elective Units

- AURACA101 Respond to customer needs and enquiries in an automotive workplace
- AURAF103 Communicate effectively in an automotive workplace
- AURATA002 Read, interpret and apply engineering drawings
- AURETH017 Work safely with hydrogen in the automotive industry
- AURETH018 Inspect and maintain hydrogen fuel cell system*
- AURETH101 Depower and reinitialise battery electric vehicles
- AURETH102 Inspect and maintain battery electric vehicles*
- AURETK002 Use and maintain electrical test equipment in an automotive workplace
- AURETR005 Install automotive security systems and components
- AURETR007 Apply knowledge of automotive electrical circuits and wiring systems

- AURETR010 Repair wiring harnesses and looms
- AURETR011 Install basic ancillary electrical systems and components
- AURETR019 Inspect, service and repair AC electric motor drive systems
- AURETR121 Diagnose, repair and replace heavy vehicle electronic management, monitoring and tracking systems
- AURETR123 Diagnose and repair spark ignition engine management systems
- AURETR124 Diagnose and repair compression ignition engine management systems
- AURETR128 Diagnose and repair instruments and warning systems
- AURETR129 Diagnose and repair charging systems
- AURETR130 Diagnose and repair starting systems
- AURETR131 Diagnose and repair ignition systems
- AURETR132 Diagnose and repair automotive electrical systems
- AURETR144 Diagnose and repair integrated engine and transmission management 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
- AURHTB101 Diagnose and repair heavy vehicle air braking systems
- AURHTE001 Remove and install heavy vehicle engine assemblies
- AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
- AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURHTJ203 Remove, inspect and refit heavy vehicle wheel and tyre assemblies
- 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
- AURHTX002 Inspect, test and replace heavy vehicle automatic transmissions
- AURHTX104 Diagnose and repair heavy vehicle clutch systems
- AURHTZ101 Diagnose and repair heavy vehicle emission control systems
- AURKTA001 Synchronise plant and equipment
- AURKTA005 Inspect, service and repair track type drive and support systems
- AURKTA111 Diagnose and repair mobile plant hydraulic systems

- AURKTB101 Diagnose and repair mobile plant braking systems
- AURKTD101 Diagnose and repair mobile plant suspension systems
- AURKTD102 Diagnose and repair mobile plant steering systems
- AURKTJ112 Remove, inspect and fit earthmoving and off-the-road wheel and rim assemblies
- AURKTJ116 Use earthmoving and off-the-road tyre handlers
- AURKTQ101 Diagnose and repair mobile plant final drive assemblies
- AURKTR101 Diagnose and repair electronic over hydraulic control systems
- AURKTX101 Diagnose and repair powershift transmissions
- AURKTX104 Diagnose and repair continuously variable transmissions
- AURLTB103 Diagnose and repair light vehicle hydraulic braking systems
- AURLTE001 Remove and install light vehicle engine assemblies
- AURLTE102 Diagnose and repair light vehicle engines
- AURLTZ101 Diagnose and repair light vehicle emission control systems
- AURNTA001 Inspect, service and repair forklift mast assemblies
- AURNTB101 Diagnose and repair forklift hydraulic braking systems
- AURNTD101 Diagnose and repair forklift hydrostatic steering systems
- AURTTA007 Inspect, service and repair pneumatic systems
- AURTTA009 Carry out mechanical pre-repair operations
- AURTTA011 Install hydraulic systems to specified applications
- AURTTA012 Fabricate and install fluid power hose assemblies
- AURTTA014 Assemble and install pneumatic system components
- AURTTA017 Carry out vehicle safety inspections
- AURTTA113 Diagnose and repair hydraulic systems
- AURTTB004 Inspect and service air braking systems
- AURTTB006 Inspect, service and repair auxiliary braking systems
- AURTTB015 Assemble and fit braking system components
- AURTTB101 Inspect and service braking systems
- AURTTC103 Diagnose and repair cooling systems
- AURTTC001 Inspect and service cooling systems
- AURTTD002 Inspect and service steering systems
- AURTTD004 Inspect and service suspension systems
- AURTTE005 Overhaul engines

- AURTTE104 Inspect and service engines
- AURTTTF003 Overhaul diesel fuel injection system components
- AURTTTF101 Inspect and service petrol fuel systems
- AURTTTF102 Inspect and service diesel fuel injection systems
- AURTTTF105 Diagnose and repair engine forced-induction systems
- AURTTTF106 Diagnose and repair petrol carburettor systems
- AURTTJ111 Balance wheels and tyres
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- AURTTL001 Inspect and service CNG fuel systems
- AURTTL003 Install CNG fuel systems
- AURTTL007 Inspect and service LPG fuel systems
- AURTTL009 Install LPG fuel systems
- AURTTL102 Diagnose and repair CNG fuel systems
- AURTTL104 Inspect and service LNG fuel systems
- AURTTL105 Diagnose and repair LNG fuel systems
- AURTTL108 Diagnose and repair LPG fuel systems
- AURTTQ001 Inspect and service final drive assemblies
- AURTTQ103 Inspect and service drive shafts
- AURTTW001 Carry out soft soldering techniques
- AURTTX102 Inspect and service manual transmissions
- AURTTX103 Inspect and service automatic transmissions
- AURTTX104 Inspect and service hydrostatic transmissions
- AURTTX106 Diagnose and repair hydrostatic transmissions
- AURTTZ102 Diagnose and repair exhaust systems
- AURVTW002 Carry out oxyacetylene brazing of components
- 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
- RIIHAN301E Operate elevating work platform
- TLILIC0003 Licence to operate a forklift truck

- TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

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
AURETH102 Inspect and maintain battery electric vehicles	AURETH101 Depower and reinitialise battery electric vehicles

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
AUR31220 Certificate III in Mobile Plant Technology	AUR31216 Certificate III in Mobile Plant Technology		Equivalent
AUR31220 Certificate III in Mobile Plant Technology	AUR31716 Certificate III in Forklift Technology		Not equivalent
AUR31220 Certificate III in Mobile Plant Technology	AUR31916 Certificate III in Elevating Work Platform Technology		Not equivalent

Links

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