



Australian Government

AUR31220 Certificate III in Mobile Plant Technology

Release 1

AUR31220 Certificate III in Mobile Plant Technology

Modification History

Release	Comments
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 mobile plant 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

9 core units, plus

27 elective units, of which:

- all units in one of the Specialist Elective Groups A to C must be chosen
- of the remaining units required to make up the 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.

Specialisations

Where relevant, specialisations can be used in this qualification for:

- Mobile Plant Equipment
- Forklift
- Elevating Work Platform

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)

Mobile Plant Equipment specialisation

Select all units listed in Specialist Elective Group A.

Forklift specialisation

Select all units listed in Specialist Elective Group B.

Elevating Work Platform specialisation

Select all units listed in Specialist Elective Group C.

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

AURTTC103 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

AURETH002 Service and maintain battery electric vehicles*

AURETH101 Depower and reinitialise 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

AURETR021 Inspect, service and repair 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
AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems
AURHTJ103 Remove, inspect and refit heavy vehicle wheel and tyre assemblies
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
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
AURKTJ012 Remove, inspect and fit earthmoving and off-the-road wheel and rim assemblies
AURKTJ016 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
AURTTA015 Produce engineering drawings for vehicle 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
AURTTT103 Diagnose and repair cooling systems
AURTTT001 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
AURTTTJ011 Balance wheels and tyres
AURTTTK001 Use and maintain measuring equipment in an automotive workplace
AURTTTL001 Inspect and service CNG fuel systems
AURTTTL003 Install CNG fuel systems
AURTTTL006 Install LNG fuel systems
AURTTTL007 Inspect and service LPG fuel systems
AURTTTL009 Install LPG fuel systems
AURTTTL102 Diagnose and repair CNG fuel systems
AURTTTL104 Inspect and service LNG fuel systems
AURTTTL105 Diagnose and repair LNG fuel systems
AURTTTL108 Diagnose and repair LPG fuel systems
AURTTTQ001 Inspect and service final drive assemblies
AURTTTQ103 Inspect and service drive shafts
AURTTTW001 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)

*Note the following prerequisite unit requirements.

UNIT IN THIS QUALIFICATION	PREREQUISITE UNIT
AURETH002 Service and maintain battery electric vehicles	AURETH001 Depower and reinitialise battery electric vehicles

Qualification Mapping Information

Supersedes and is equivalent to AUR31216 Certificate III in Mobile Plant Technology.

Supersedes and is not equivalent to AUR31716 Certificate III in Forklift Technology.

Supersedes and is not equivalent to AUR31916 Certificate III in Elevating Work Platform Technology.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>