



**Australian Government**

# **AUR31220 Certificate III in Mobile Plant Technology**

**Release 2**

## 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
Release 2	<p>This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.1.</p> <p>The following elective units of competency have been deleted as directed by the AISC:</p> <ul style="list-style-type: none"> <li>• AURHTJ005 Identify and apply heavy vehicle pneumatic wheeled traction performance enhancement systems</li> <li>• AURTTA015 Produce engineering drawings for vehicle components</li> <li>• AURTTL006 Install LNG fuel systems.</li> </ul> <p>The above training products were identified as having zero enrolments over a three year period.</p>

### 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

AURHTE102 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

AURHTE102 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

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  
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  
AURTTF003 Overhaul diesel fuel injection system components  
AURTTF101 Inspect and service petrol fuel systems  
AURTTF102 Inspect and service diesel fuel injection systems  
AURTTF105 Diagnose and repair engine forced-induction systems  
AURTTF106 Diagnose and repair petrol carburettor systems  
AURTTJ011 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)

\*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 in VETNet -

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