Australian Government

AUR3042X Certificate III in Agricultural Mechanical Technology

Release: 1

AUR3042X Certificate III in Agricultural Mechanical Technology

Modification History

Release	Comments
1	This version first released with AUR Automotive Retail, Service and Repair Training Package Release 12.

Qualification Description

This qualification reflects the role of agricultural mechanical technicians who inspect, service, diagnose and repair agricultural machinery. They work in the automotive retail, service and repair industry and the agricultural service and repair industry, in workshops and in the field.

Individuals apply factual, technical, procedural and some theoretical knowledge of the engine, fuel, cooling, hydraulic, braking, steering, transmission, final drive and electrical systems of agricultural machinery, and of the specialised agricultural machinery systems and equipment selected from the Agricultural Machinery Electives. They select and apply a range of diagnostic methods, tools, test equipment and manufacturer information to complete routine and non-routine service and repair work, provide solutions to predictable and sometimes unpredictable problems, and communicate findings and recommendations to customers, operators and supervisors.

They work with autonomy, judgement and limited responsibility in known and stable contexts, within established workplace procedures and manufacturer specifications, and follow work health and safety (WHS) and occupational health and safety (OHS) requirements, and environmental requirements, in workshop and field settings.

Licensing/Regulatory Information

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

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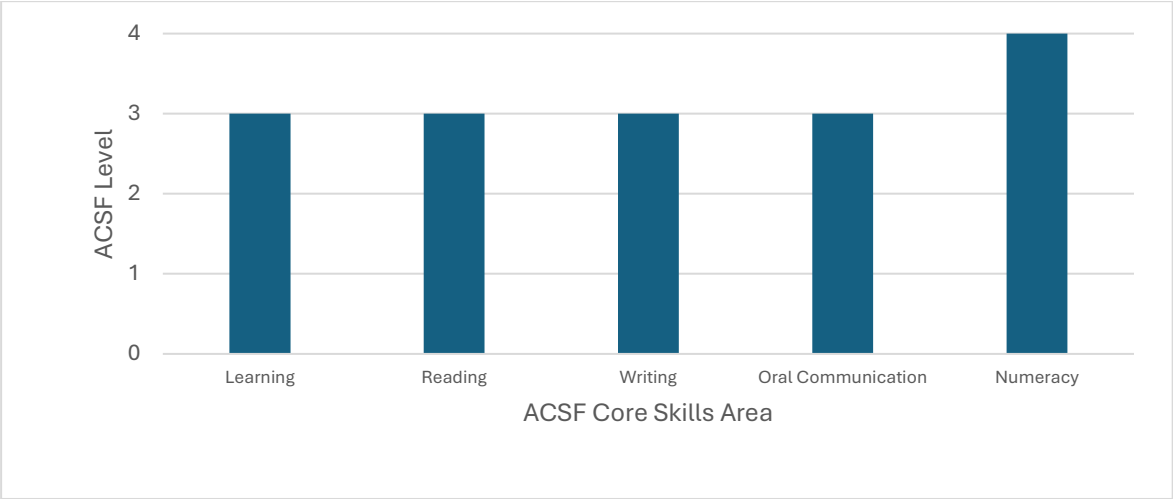
Foundation Skills Outcomes

The foundation skills outcomes implicit in this qualification are outlined in the bar chart below.



Digital literacy outcomes include using in-cab displays, diagnostic software and manufacturer portals to access technical information, accessing and interpreting fault codes, adjust machine settings, update software, and record diagnostic and service data.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 36

21 core units, plus

15 elective units, of which:

- 2 units must be selected from the Agricultural Machinery Electives listed below, plus
- the remaining 13 units may be selected from:
    - the Agricultural Machinery Electives and/or General Electives listed below, or
    - up to **3** units may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course.

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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
- AURETR212 Test and repair basic electrical circuits
- AURETR225 Test, charge and replace batteries and jump-start vehicles
- AURETR229 Diagnose and repair charging systems
- AURETR230 Diagnose and repair starting systems
- AURHTE202 Diagnose and repair heavy vehicle compression ignition engines
- AURHTF202 Diagnose and repair heavy vehicle diesel fuel injection systems
- AURKTA211 Diagnose and repair mobile plant hydraulic systems
- AURKTB201 Diagnose and repair mobile plant braking systems
- AURKTD202 Diagnose and repair mobile plant steering systems
- AURKTQ201 Diagnose and repair mobile plant final drive assemblies
- AURKTX201 Diagnose and repair powershift transmissions
- AURTTA204 Carry out servicing operations
- AURTTA218 Develop and carry out diagnostic test strategies
- AURTTB201 Inspect and service braking systems
- AURTTC203 Diagnose and repair cooling systems
- AURTTE204 Inspect and service engines
- AURTTFX02 Inspect and service diesel fuel injection systems
- AURTTK102 Use and maintain tools and equipment in an automotive workplace

Agricultural Machinery Electives

- AURKTAX01 Synchronise plant and equipment
- AURKTAX02 Inspect, service and repair crop harvesting equipment
- AURKTAX03 Inspect, service and repair crop planting and seeding equipment
- AURKTAX04 Inspect, service and repair spraying and spreading equipment

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- AURKTAX10 Inspect, service and repair hay cutting, raking and baling equipment

General Electives

- AURAFA103 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
- AURETK002 Use and maintain electrical test equipment in an automotive workplace
- 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
- AURETR224 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
- AURHTB101 Diagnose and repair heavy vehicle air braking systems
- AURHTD103 Diagnose and repair heavy vehicle suspension systems
- AURHTEX01 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
- AURHTQ203 Diagnose and repair heavy vehicle drive shafts

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- 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
- AURKTA105 Inspect, service and repair track type drive and support systems
- AURKTD101 Diagnose and repair mobile plant suspension systems
- AURKTR101 Diagnose and repair electronic over hydraulic control systems
- AURKTX104 Diagnose and repair continuously variable transmissions
- AURTTA106 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
- AURTTA205 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
- AURTTF205 Diagnose and repair engine forced-induction systems
- AURTTK001 Use and maintain measuring equipment in an automotive workplace
- 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
- AURVTW201 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
- AURVTW209 Carry out basic gas metal arc welding

*Prerequisite requirement applies. Refer to Pre-requisite Requirements below.

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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	New Code and Title	Comments	Equivalence
AUR30420 Certificate III in Agricultural Mechanical Technology	AUR3042X Certificate III in Agricultural Mechanical Technology	Packaging rules updated, including a new Agricultural Machinery Electives group. Changes include: a minimum of 2 units must be selected from the new Agricultural Machinery, AURTTF102 replaced by AURTTFX02 in the core, AURHTE001 replaced by AURHTEX01, AURKTA001, AURKTA002, AURKTA003, AURKTA004 and AURKTA010 replaced by updated units and moved to the Agricultural	Equivalent

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		Machinery Electives group, AURTTL003, AURTTL009, AURTTL104 and AURTTL105 removed from elective bank, AURETK002, AURHTB101 and AURKTR101 added to elective, units that may be selected from other qualifications reduced from 6 to 3.	

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