

## AUR30405 Certificate III in Automotive Mechanical Technology

### QUALIFICATION REQUIREMENTS

36 units of competence at levels 2, 3 or 4 are required to complete this qualification within the specific requirements as set out in the three areas below:

NOTE:

- a maximum of 20 units of competence may be at level 2, and
- a maximum of 2 units of competence may be at level 4
- Refer to Appendix 1 for Unit Inventories.

#### ONE

The following units of competence are compulsory:

AURC270103A Apply safe working practices

AURT366108A Carry out diagnostic procedures

AURT271781A Implement and monitor environmental regulations in the automotive mechanical industry

#### TWO

27 units of competence from the Technical Inventory

#### THREE

6 units of competence from the Retail, Service and Repair or any endorsed training package that meet the needs of the enterprise

When people have achieved units as individual units or as part of Certificate II that are consistent with the requirement of this qualification then credit should be given for these units.

**The following units of competence must not be used together when achieving this qualification:**

MEM5.3AA Soft soldering basic and AURV223808A Carry out soft soldering techniques
MEM5.4AB Perform routine oxy acetylene welding and AURV223608A Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
MEM5.7AB Manual heating thermal cutting and AURV223608A Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
MEM5.17AB Weld using gas metal arc welding process and AURV281308A Carry out gas metal arc (MIG) welding procedures

## DESCRIPTORS

A descriptor may be used to describe the specific job profile(s). The descriptor(s) selected must adhere to the above qualification requirements.

Descriptors are minimum industry recommendations to assist training providers, employers and trainees with the development of training plans for those employed in the following:

(Note: the use of a descriptor does not alter nationally recognised qualification titles)

### **Agricultural Mechanical**

To use this descriptor the following must be included when selecting units of competence as specified in area **TWO**:

AURE218676A Test, service and charge batteries

AURE218708A Carry out repairs to single electrical circuits

AURE321971A Inspect, service and repair electronic management, monitoring and tracking systems

AURT300471A Inspect, service and repair harvesting equipment

AURT300571A Inspect, service and repair crop planting and seeding equipment

AURT300671A Inspect, service and repair spraying and spreading equipment

#### ***Plus a minimum of 1 of the following:***

AURT303166B Repair petrol fuel systems

AURT303666A Repair diesel fuel systems

### **Heavy Vehicle Mobile Equipment**

To use this descriptor the following must be included when selecting units of competence as specified in area **TWO**:

AURE218676A Test, service and charge batteries

AURE218708A Carry out repairs to single electrical circuits

AURT202166A Repair cooling systems

AURT303666A Repair diesel fuel systems

AURT304666A Repair and replace emission control systems

AURT309166A Repair hydraulic systems

AURT310166A Repair hydraulic braking systems

AURT311166A Repair air braking systems

AURTH301166A Repair engines and associated engine components (heavy vehicle)

AURTH312666A Repair final drive assemblies (heavy vehicle)

AURTH313166A Repair final drive - driveline (heavy vehicle)

AURTH315166A Repair steering systems (heavy vehicle)

#### ***Plus a minimum of one of the following:***

AURTH306666A Repair transmissions - manual (heavy vehicle)

AURTH307166A Repair transmissions - automatic (heavy vehicle)

## Heavy Vehicle Road Transport

To use this descriptor the following must be included when selecting units of competence as specified in area **TWO**:

- AURE218676A Test, service and charge batteries
- AURE218708A Carry out repairs to single electrical circuits
- AURT201164A Remove and install engine assemblies
- AURT202166A Repair cooling systems
- AURT303666A Repair diesel fuel systems
- AURT304666A Repair and replace emission control systems
- AURT310166A Repair hydraulic braking systems
- AURT311166A Repair air braking systems
- AURTH301166A Repair engines and associated engine components (heavy vehicle)
- AURTH312666A Repair final drive assemblies (heavy vehicle)
- AURTH313166A Repair final drive - driveline (heavy vehicle)
- AURTH315166A Repair steering systems (heavy vehicle)
- AURTH316166A Repair suspension systems (heavy vehicle)

***Plus a minimum of one of the following:***

- AURTH306666A Repair transmissions - manual (heavy vehicle)
- AURTH307166A Repair transmissions - automatic (heavy vehicle)

## Light Vehicle

To use this descriptor the following must be included when selecting units of competence as specified in area **TWO**:

- AURE218676A Test, service and charge batteries
- AURE320666A Repair ignition systems
- AURE321171A Service and repair electronic spark ignition engine management systems
- AURE218708A Carry out repairs to single electrical circuits
- AURT202166A Repair cooling systems
- AURT303166B Repair petrol fuel systems
- AURT304666A Repair and replace emission control systems
- AURT306170A Inspect, service and/or repair clutch assemblies and associated operating system components
- AURT310166A Repair hydraulic braking systems
- AURTL301166A Repair engines and associated engine components (light vehicle)
- AURTL306666A Repair transmissions - manual (light vehicle)
- AURTL312666A Repair final drive assemblies (light vehicle)
- AURTL313166A Repair final drive - driveline (light vehicle)

AURTL315166A Repair steering systems (light vehicle)

AURTL316166A Repair suspension systems (light vehicle)

### **Motorcycle**

To use this descriptor the following must be included when selecting units of competence as specified in area **TWO**:

AURE218676A Test, service and charge batteries

AURE320666A Repair ignition systems

AURE321171A Service and repair electronic spark ignition engine management systems

AURT202166A Repair cooling systems

AURT217665A Remove, fit and inspect wheel assemblies

AURE218708A Carry out repairs to single electrical circuits

AURT303166B Repair petrol fuel systems

AURT304666A Repair and replace emission control systems

AURT306170A Inspect, service and/or repair clutch assemblies and associated operating system components

AURT310166A Repair hydraulic braking systems

AURTL301166A Repair engines and associated engine components (light vehicle)

AURTL306666A Repair transmissions - manual (light vehicle)

AURTL312666A Repair final drive assemblies (light vehicle)

AURTL313166A Repair final drive - driveline (light vehicle)

AURTM315166A Repair steering systems (motorcycle)

AURTM316166A Repair suspension systems (motorcycle)

## **Employability Skills for AUR30405 Certificate III in Automotive Mechanical Technology**

The following table contains a summary of the employability skills for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that may vary depending on the packaging options.

<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
<b>Communication</b>	
<b>Teamwork</b>	
<b>Problem solving</b>	
<b>Initiative and enterprise</b>	
<b>Planning and organising</b>	
<b>Self management</b>	
<b>Learning</b>	
<b>Technology</b>	

### **EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

Employability Skills Summaries have not been developed for AUR05, although Employability Skills are well covered at a unit level. Qualification summaries are to be developed as part of continuous improvement planned for this package.

## 8. Technical Inventory

Unit Number	Level	Title
<b>Advanced technology cluster</b>		
<b>Electrical/Electronic - Systems group</b>		
AURT575093A	5	Analyse and evaluate electrical and electronic faults in stability/steering/suspension systems
AURT575193A	5	Analyse and evaluate electrical and electronic faults in electric over hydraulic systems
AURT575293A	5	Analyse and evaluate electrical and electronic faults in engine management systems
AURT575393A	5	Analyse and evaluate electrical and electronic faults in transmission/ driveline systems
AURT575493A	5	Analyse and evaluate electrical and electronic faults in braking systems
AURT575593A	5	Analyse and evaluate electrical and electronic faults in safety systems
AURT575693A	5	Analyse and evaluate electrical and electronic faults in monitoring/ protection systems
AURT575893A	5	Analyse and evaluate electrical and electronic faults in convenience and entertainment systems
AURT575993A	5	Analyse and evaluate electrical and electronic faults in theft deterrent systems
AURT576093A	5	Analyse and evaluate electrical and electronic faults in electric and hybrid vehicle systems
AURT576193A	5	Analyse and evaluate electrical and electronic faults in climate control systems
<b>Electrical/Electronic - Systems Modification group</b>		
AURT576520A	5	Develop and apply electrical systems modification
AURT576620A	5	Develop and apply electronic systems modification
<b>General Technology group</b>		
AURT477093A	4	Analyse and evaluate gas fuel system faults
AURT577120A	5	Develop and apply gas fuel systems modification
AURT577394A	5	Evaluate and select bodywork materials, equipment and processes

Appendices

AURT577520A	5	Prepare technical reports
AURT577620A	5	Develop and document specifications and procedures
AURT577727A	5	Identify and calculate total costs of work

**Mechanical - Heavy Vehicle group**

AURT571093A	5	Analyse and evaluate heavy vehicle steering and suspension system faults
AURT571193A	5	Analyse and evaluate heavy vehicle transmission system faults
AURT571293A	5	Analyse and evaluate heavy vehicle engine and fuel system faults
AURT571393A	5	Analyse and evaluate heavy vehicle braking system faults

**Mechanical - Light Marine group**

AURT573593A	5	Analyse and evaluate light marine hydraulic system faults
AURT573693A	5	Analyse and evaluate light marine transmission system faults
AURT573793A	5	Analyse and evaluate light marine engine and powerhead system faults
AURT573893A	5	Analyse and evaluate light marine hull performance and stability system faults

**Mechanical - Light Vehicle group**

AURT570093A	5	Analyse and evaluate light vehicle steering and suspension system faults
AURT570193A	5	Analyse and evaluate light vehicle driveline system faults
AURT570293A	5	Analyse and evaluate light vehicle engine and fuel system faults
AURT570393A	5	Analyse and evaluate light vehicle braking system faults

**Mechanical - Systems Modification group**

AURT574020A	5	Develop and apply mechanical systems modification
AURT574120A	5	Develop and apply hydraulic systems modification
AURT574220A	5	Develop and apply pneumatic systems modification

**Mechanical - Mobile Plant group**

AURT572093A	5	Analyse and evaluate wheeled mobile plant steering and suspension system faults
AURT572193A	5	Analyse and evaluate wheeled mobile plant transmission system faults

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AURT572293A	5	Analyse and evaluate mobile plant engine and fuel system faults
AURT572393A	5	Analyse and evaluate tracked mobile plant transmission, steering and braking systems faults
AURT572493A	5	Analyse and evaluate tracked mobile plant undercarriage and suspension system faults
AURT572593A	5	Analyse and evaluate wheeled mobile plant braking system faults
AURT572693A	5	Analyse and evaluate mobile plant hydraulic system faults

**Mechanical - Motor Cycle group**

AURT573093A	5	Analyse and evaluate motorcycle steering, suspension and frame system faults
AURT573193A	5	Analyse and evaluate motorcycle engine and transmission system faults
AURT573293A	5	Analyse and evaluate motorcycle electrical/electronic system faults
AURT573393A	5	Analyse and evaluate motorcycle braking system faults

**Brakes cluster**

**Brakes - Air group**

AURT211170A	2	Inspect and service air braking systems
AURT311166A	3	Repair air braking systems
AURT411145A	4	Overhaul air braking systems/components

**Brakes - Drums, Discs and Linings group**

AURT210605A	2	Attach friction materials and radius grind
AURT210736A	2	Machine brake drums and brake disc rotors

**Brakes - Electric group**

AURE311666A	3	Repair electric braking systems
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**Brakes - General group**

AURT210170A	2	Inspect and service braking systems
AURT310104A	3	Assemble and fit braking systems/components
AURT310166A	3	Repair hydraulic braking systems
AURT310171A	3	Inspect, service and repair auxiliary braking systems



Appendices

AURT410145AA	4	Overhaul braking system components (light)
AURT410145BA	4	Overhaul braking system components (heavy)

**Electrical ancillary systems and accessories cluster**

**AC Electric Motor Drive Systems group**

AURE319271A	3	Inspect, service and repair AC electric motor drive systems
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**Electrical group**

AURE218664A	2	Remove and replace electrical/electronic units/assemblies
AURE218670A	2	Service, maintain or replace batteries
AURE218676A	2	Test, service and charge batteries
AURE218708A	2	Carry out repairs to single electrical circuits
AURE218764A	2	Remove, refit and test electrical componentry for normal operation following body repair activities
AURE219331A	2	Install, test and repair low voltage wiring/lighting systems
AURE219431A	2	Install, test and repair electrical security systems/components
AURE219531A	2	Install ancillary electrical components
AURE220140A	2	Manufacture and repair wiring harness/looms
AURE224008A	2	Carry out soldering of electrical wiring/circuits
AURE318866A	3	Repair electrical systems
AURE318966A	3	Repair instruments and warning systems
AURE319145A	3	Overhaul charging system alternators
AURE319166A	3	Repair charging systems
AURE319245A	3	Overhaul starting motors
AURE319266A	3	Repair starting systems
AURE320031A	3	Install marine electrical systems/components
AURE320066A	3	Diagnose and repair marine electrical systems/components

**Electronics group**

AURE320871A	3	Service and repair electronically controlled steering systems
AURE320971A	3	Service and repair electronically controlled suspension systems
AURE321066A	3	Repair electronic systems
AURE321171A	3	Service and repair electronic spark ignition engine management

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		systems
AURE321271A	3	Service and repair electronic drive management systems
AURE321371A	3	Service and repair electronic body management systems
AURE321471A	3	Service and repair electronically controlled anti-lock braking systems
AURE321571A	3	Service and repair electronically operated traction control system
AURE321671A	3	Service and repair electronically operated stability control systems
AURE321771A	3	Service and repair electronic compression ignition engine management systems
AURE321831A	3	Install marine electronic systems/components
AURE321971A	3	Inspect, service and repair electronic management, monitoring and tracking systems
<b>Ignition group</b>		
AURE320666A	3	Repair ignition systems
<b>Engines/systems and transmissions cluster</b>		
<b>Clutch group</b>		
AURT306170A	3	Inspect, service and/or repair clutch assemblies and associated operating system components
AURT406145A	4	Overhaul clutch assemblies
<b>Cooling group</b>		
AURT202166A	2	Repair cooling systems
AURT202170A	2	Inspect and service cooling systems
<b>Engines/systems and transmissions cluster</b>		
<b>Driveline group</b>		
AURT213165A	2	Remove and refit driveline components
AURT213170A	2	Service final drive (driveline)
AURTH313166A	3	Repair final drive - driveline (heavy vehicle)
AURTL313166A	3	Repair final drive - driveline (light vehicle)
<b>Emission group</b>		
AURT204670A	2	Inspect and service emission control systems

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AURT304666A	3	Repair and replace emission control systems
<b>Exhaust group</b>		
AURT205123A	2	Fabricate exhaust system/components
AURT205166A	2	Repair exhaust system components
<b>Engines - General group</b>		
AURT200368A	2	Select and use bearings, seals, gaskets, sealants and adhesives
AURT201164A	2	Remove and install engine assemblies
AURT201170A	2	Inspect and service engines
AURT301357A	3	Rebuild engine components
AURT301359A	3	Reclaim engine components
AURT301383A	3	Dismantle, assemble and repair engine block and sub-assemblies
AURT301483A	3	Recondition cylinder heads
AURT401145A	4	Overhaul engines and associated engine components
AURTH301166A	3	Repair engines and associated engine components (heavy vehicle)
AURTH404584A	4	Inspect, repair and diagnose alternative fuel systems for heavy vehicle engines
AURTL301166A	3	Repair engines and associated engine components (light vehicle)
<b>Final Drive Assemblies group</b>		
AURT212670A	2	Service final drive assemblies
AURT412645A	4	Overhaul final drive assemblies
AURTH312666A	3	Repair final drive assemblies (heavy vehicle)
AURTL312666A	3	Repair final drive assemblies (light vehicle)
<b>Forced Induction group</b>		
AURT305671A	3	Inspect and repair engine forced induction systems
<b>Fuel Systems - Diesel group</b>		
AURT203670A	2	Service diesel fuel injection systems
AURT303666A	3	Repair diesel fuel systems
AURT403645A	4	Overhaul diesel fuel injection systems
<b>Fuel Systems - Gas group</b>		

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AURT304031A	3	Install LPG/CNG electrical control equipment
AURT304231A	3	Install LPG fuel systems
AURT304266A	3	Repair LPG fuel systems
AURT304270A	3	Service LPG fuel systems
AURT304331A	3	Install CNG fuel systems
AURT304366A	3	Repair CNG fuel systems
AURT304370A	3	Service CNG fuel systems
AURT304431A	3	Install LNG fuel systems
AURT304466A	3	Repair LNG fuel systems
AURT304470A	3	Service LNG fuel systems
AURT404284A	4	Diagnose LPG fuel system faults
AURT404384A	4	Diagnose CNG fuel system faults
AURT404484A	4	Diagnose LNG fuel system faults

**Fuel Systems - Petrol group**

AURT203170B	2	Service petrol fuel systems
AURT303166B	3	Repair petrol fuel systems
AURT403145B	4	Overhaul petrol fuel system components

**Machining group**

AURT334606A	3	Balance engine components
AURT334608A	3	Carry out blueprinting of engine components
AURT334708A	3	Carry out reboring and honing of cylinders
AURT334808A	3	Carry out grinding and facing operations
AURT334972A	3	Set, operate and monitor specialist machines
AURT335108A	3	Carry out machining operations
MEM7.5AA	2	Perform general machining

**Radiators group**

AURT202608A	2	Carry out radiator repairs
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**Transmissions - Automatic group**

AURT207170A	2	Inspect and service transmissions (automatic)
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Appendices

AURT407145A	4	Overhaul transmissions (automatic)
AURTH307165A	3	Inspect, test and replace transmissions - automatic (heavy vehicle)
AURTH307166A	3	Repair transmissions - automatic (heavy vehicle)
AURTL307166A	3	Repair transmissions - automatic (light vehicle)

**Transmissions - Hydrostatic group**

AURT208170A	2	Service transmissions (hydrostatic)
AURT308166A	3	Repair transmissions (hydrostatic)
AURT408145A	4	Overhaul transmissions (hydrostatic)

**Transmissions - Manual group**

AURT206670A	2	Inspect and service transmissions (manual)
AURT406645A	4	Overhaul transmissions (manual)
AURTH306666A	3	Repair transmissions - manual (heavy vehicle)
AURTL306666A	3	Repair transmissions - manual (light vehicle)

**Environmental cluster**

**Environment group**

AURC272003A	2	Apply environmental regulations and best practice in a workplace or business
AURR271103A	2	Apply environmental regulations in the marine service industry
AURR371181A	3	Implement and monitor environmental regulations in the marine repair industry
AURR471182A	4	Plan and manage compliance with environmental regulations in the marine service and repair industry
AURT271781A	2	Implement and monitor environmental regulations in the automotive mechanical industry
AURT471782A	4	Plan and manage compliance with environmental regulations in the mechanical repair industry

**General mechanical cluster**

**Agricultural/Heavy Vehicle Equipment group**

AURT300373A	3	Synchronise plant/equipment
AURT300471A	3	Inspect, service and repair harvesting equipment

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AURT300571A	3	Inspect, service and repair crop planting and seeding equipment
AURT300671A	3	Inspect, service and repair spraying and spreading equipment
AURT300771A	3	Inspect, service and repair lift truck mast assemblies
<b>Air Compressor group</b>		
AURT222171A	2	Service, repair and replace air compressors/components
AURT222170A	2	Service air compressors and air lines
<b>Air Conditioning group</b>		
AURT222631A	2	Install air conditioning systems
AURT222670A	2	Service air conditioning systems
AURT322645A	3	Overhaul air conditioning system components
AURT322666A	3	Repair/retrofit air conditioning systems
<b>Diagnosis group</b>		
AURC252103A	2	Apply basic automotive troubleshooting processes
AURT366108A	3	Carry out diagnostic procedures
AURT366308A	3	Carry out advanced diagnostic procedures
AURT466208A	4	Carry out diagnosis of complex system faults
<b>Drawings group</b>		
AURT225156A	2	Read and interpret engineering drawings
AURT225191A	2	Produce drawings from design concepts
AURT225291A	2	Produce patterns and templates
AURT325149A	3	Prepare engineering drawings
<b>Hydraulics group</b>		
AURT209170A	2	Service hydraulic systems
AURT309131B	3	Install hydraulic systems to specified applications
AURT309140A	3	Manufacture and install fluid power hose assemblies
AURT309166A	3	Repair hydraulic systems
<b>Maintenance group</b>		
AURT200108A	2	Carry out servicing operations
AURT270278A	2	Use and maintain workplace tools and equipment

Appendices

<b>Measuring group</b>		
AURT225667A	2	Use and maintain measuring equipment
<b>Pneumatics group</b>		
AURT209671A	2	Inspect, service and repair pneumatic systems
AURT309604A	3	Assemble and install pneumatic systems/components
AURT309627A	3	Identify and apply pneumatic wheeled traction performance enhancement systems (heavy vehicle)
<b>Refrigeration group</b>		
AURT223104A	2	Assemble and install refrigeration systems/components
<b>Vehicle Inspection/Assessment group</b>		
AURT365130A	3	Inspect vehicle systems and determine preferred repair action
AURT365508A	3	Carry out vehicle safety/roadworthy inspection
AURT226008A	2	Carry out pre-repair operations (mechanical)
<b>Management and administration cluster</b>		
<b>Administration group</b>		
AURC361230A	3	Inspect technical quality of work
AURC365722A	3	Estimate complex jobs
AURC465349A	4	Prepare written repair quotation
<b>Communication group</b>		
AURC270688A	2	Work effectively with others
AURC270789A	2	Communicate effectively in the workplace
AURC270889A	2	Communicate business information
<b>Continuous Improvement group</b>		
AURC361101A	3	Adapt work processes to new technologies
AURC361337A	3	Maintain quality systems
BSBCM412A	4	Promote innovation and change
<b>Staffing/Personnel group</b>		
AURC359554A	3	Provide technical guidance
<b>Workplace Safety group</b>		

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AURC270103A	2	Apply safe working practices
BSBCMN311A	3	Maintain workplace safety
HLTFA1A	2	Apply basic first aid

**Marine cluster**

**Jet Drives group**

AURR214170A	2	Service jet drive propulsion systems
AURR314131A	3	Install jet drive propulsion systems
AURR314166A	3	Diagnose and repair jet drive propulsion systems

**Marine - General group**

AURR246870A	2	Service deck, hull, and deck and cabin equipment and fittings
AURR346108A	3	Carry out hull repairs
AURR346131A	3	Install marine engines/controls/instruments
AURR346266A	3	Diagnose and repair rope, cable and chain systems
AURR346335A	3	Launch and recover vessel from trailer
AURR346435A	3	Launch and recover vessel from crane, gantry and forklift
AURR346519A	3	Inspect, drive and manoeuvre motor driven vessel
AURR346542A	3	Moor vessel
AURR346649A	3	Prepare (winterise) vessel systems
AURR346660A	3	Recommission vessel systems
AURR346749A	3	Prepare (winterise) engine systems
AURR346760A	3	Recommission engine systems
AURR346866A	3	Repair deck, hull, and deck and cabin equipment and fittings
AURR346927A	3	Identify the need for water testing vessels
AURR346930A	3	Water test vessels
AURR346975A	3	Water test engines in tanks
AURR347030A	3	Check configuration to meet specific customer performance specification

**Propeller Drives group**

AURR213631A	2	Install inboard propeller drive systems
AURR313670A	3	Service inboard propeller drive systems



Appendices

AURR313684A	3	Diagnose and repair inboard propeller drive systems
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**Transmissions - Marine group**

AURR207670A	2	Service marine transmissions (outboard and stern drive)
AURR207770A	2	Service marine transmissions (inboard)
AURR307684A	3	Repair marine transmissions (outboard and stern drive)
AURR307784A	3	Diagnose and repair marine transmissions (inboard)

**Outdoor power equipment cluster**

**Engines - Outdoor Power Equipment group**

AURP201570A	2	Service engines and associated engine components (outdoor power equipment)
AURE222876A	2	Test, service and repair powered shears
AURE222976A	2	Test and service outdoor powered equipment
AURP245171A	2	Service and repair faults in rotary cutting systems
AURP245271A	2	Service and repair faults in drum cutting systems
AURP245371A	2	Service and repair chainsaw cutting systems
AURP245465A	2	Remove, fit and adjust line trimming system components
AURP245571A	2	Service and repair faults in post-boring systems
AURP245671A	2	Service and repair faults in post-hole digging systems
AURP245771A	2	Service and repair faults in reciprocating cutting systems
AURP301566A	3	Repair engines and associated engine components (outdoor power equipment)
AURP322776A	3	Test and service 240V portable generators
AURP401245A	4	Overhaul engines and associated engine components (outdoor power equipment)

**Pumping Systems group**

AURP247670A	2	Service pumping systems
AURP347666A	3	Repair pumping systems

**Sales, warehousing, purchasing and storage cluster**

**Equipment Operation group**

TDTD1097B	2	Operate a forklift
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Appendices

TDTD1197A	3	Conduct advanced forklift operations
<b>Materials Handling/Warehousing group</b>		
TDTD197B	2	Shift materials safely using manual handling methods
TDTD497B	2	Load and unload goods/cargo
TDTD1397B	2	Move materials mechanically using automated equipment
<b>Steering and suspension cluster</b>		
<b>Steering group</b>		
AURT215130A	2	Inspect steering systems
AURT215170A	2	Insect and service steering systems
AURT415145A	4	Overhaul steering system components
AURTH315166A	3	Repair steering systems (heavy vehicle)
AURTL315166A	3	Repair steering systems (light vehicle)
AURTM315166A	3	Repair steering systems (motorcycle)
<b>Suspension group</b>		
AURT216130A	2	Inspect suspension system
AURT216170A	2	Inspect and service suspension systems
AURT316168A	3	Select and install performance enhanced suspension system products
AURT316171A	3	Service and rectify faults in lift assisted suspension systems
AURT316271A	3	Inspect, service and repair tracked type drive and support systems
AURT316316A	3	Determine compliance of steering and suspension modifications
AURTH316166A	3	Repair suspension systems (heavy vehicle)
AURTL316166A	3	Repair suspension systems (light vehicle)
AURTM316166A	3	Repair suspension systems (motorcycle)
<b>Trailers cluster</b>		
<b>Trailers - General group</b>		
AURT237271A	2	Service and repair trailer(s)
AURT337119A	3	Drive and manoeuvre trailer(s)

Appendices

**Tyres, Rims and Wheels group**  
 See Tyres and wheels cluster below

**Tyres and wheels cluster**

**Tyres, Rims and Wheels group**

AURT217606A	2	Balance wheels and tyres
AURT217665A	2	Remove, fit and inspect wheel assemblies
AURT217668A	2	Select tyres and rims for specific applications (light)
AURT217766A	2	Remove, inspect, repair and fit tyres and tubes (light)
AURT217865A	2	Remove and refit wheel hubs and associated brake components
AURT217966A	2	Remove, inspect, repair and fit tyres and tubes (heavy)
AURT217985A	2	Fit tyres and rims for specific applications (heavy)
AURT317968A	3	Identify and fit tyres and rims for specific applications (heavy)
AURT318054A	3	Provide advice on the effects of wheel and tyre combinations

**Wheel Alignment group**

AURT317172A	3	Reset steering system alignment adjustments to customer specifications
AURTH317108A	3	Carry out wheel alignment operations (heavy vehicle)
AURTL317108A	3	Carry out wheel alignment operations (light vehicle)

**Vehicle body cluster**

**Assessment/Quotations group**

AURV365356A	3	Read and interpret vehicle body repair estimation/quotation
AURV465116A	4	Determine vehicle body damage and recommend repair procedures
AURV465230A	4	Inspect paint, trim and accessories and ascertain recommended repair procedures

**Body Repair group**

AURV327164A	3	Remove and replace supplementary restraint systems (SRS)
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**Frame Repairs group**

AURV328166A	3	Repair and align motorcycle frames
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**Welding group**

Appendices

AURV223608A	2	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
AURV223808A	2	Carry out soft soldering techniques
AURV281108A	2	Carry out manual metal arc welding procedures
AURV281208A	2	Carry out brazing procedures
AURV281308A	2	Carry out gas metal arc (MIG) welding procedures
AURV281408A	2	Carry out gas tungsten arc (TIG) welding procedures
AURV281508A	2	Carry out spot welding procedures
AURV323908A	3	Carry out thermoplastic welding procedures
MEM05050B	2	Perform routine gas metal arc welding
MEM5.4AB	2	Perform routine oxy acetylene welding
MEM5.3AA	2	Soft soldering (basic)
MEM5.7AB	2	Manual heating and thermal cutting
MEM5.17AB	2	Weld using gas metal arc welding process

## 9. Vehicle Body Inventory

Unit Number	Level	Title
<b>Electrical ancillary systems and accessories cluster</b>		
<b>Electrical group</b>		
AURE218664A	2	Remove and replace electrical/electronic units/assemblies
AURE218676A	2	Test, service and charge batteries
AURE218708A	2	Carry out repairs to single electrical circuits
AURE218764A	2	Remove, refit and test electrical componentry for normal operation following body repair activities
AURE220140A	2	Manufacture and repair wiring harness/looms
AURE224008A	2	Carry out soldering of electrical wiring/circuits
<b>Environmental cluster</b>		
<b>Environment group</b>		
AURG272003A	2	Apply environmental regulations and best practice in a workplace or business
AURT271781A	2	Implement and monitor environmental regulations in the automotive mechanical industry