



Australian Government

AUMATK009 Repair vehicle plant, tools, equipment and systems

Release: 1

AUMATK009 Repair vehicle plant, tools, equipment and systems

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATK4009 Repair plant, tooling, equipment or systems

Application

This unit describes the performance outcomes required to repair plant, tools, equipment and systems used in the design, development and production of motor vehicles.

It applies to those in an automotive manufacturing environment.

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

Competency Field

Manufacturing - Common

Unit Sector

Technical - Tools and Equipment

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section
1. Identify faulty plant, tools, equipment and systems	1.1 Reported defects of plant, tool, equipment or system are investigated and faults identified 1.2 Repair <i>instructions</i> and plans are interpreted to identify required processes and materials 1.3 Plant, tool, equipment or system is inspected and operated to confirm nature of reported fault 1.4 Repair plan is developed with production and maintenance personnel

Elements	Performance Criteria
2. Remove faulty plant, tools, equipment and systems	2.1 Identified faulty plant, tool, equipment or system is removed according to the repair plan and in line with workplace procedures 2.2 Where required, faulty plant, tool, equipment or system is temporarily replaced
3. Diagnose faults	3.1 Faults are located, causes identified, and repair strategy is developed that addresses fault-rectification requirements 3.2 Information from maintenance records, test results and fault diagnosis guides is used to assist in fault identification 3.3 Specialist advice is obtained, where required, to confirm rectification strategy
4. Repair faults	4.1 Faulty plant, tool, equipment or system is dismantled according to the repair strategy 4.2 Component parts are assessed and repair strategy is developed according to workplace procedures 4.3 Component parts are repaired, modified or replaced 4.4 Parts requiring specialist repair are tagged and repair instructions documented according to workplace procedures 4.5 Repaired plant, tools and equipment are re-assembled
5. Re-install plant, tools, equipment and systems	5.1 Re-installation plan for plant, tool, equipment or system is confirmed with relevant personnel 5.2 New or repaired plant, tool, equipment or system is re-installed and checked for compliance and correct operation
6. Calibrate and adjust plant, equipment and systems	6.1 New or repaired plant, tool, equipment or system is calibrated, adjusted and tested 6.2 Details of the repair, re-commissioning, testing and serviceability are documented according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description
Reading skills to:	interpret repair instructions, schedules, reports and work plans.
Writing skills to:	- document removal, installation and repair plans - record and report repair progress and outcomes

	complete equipment tags.
Oral communication skills to:	discuss repair plans and schedules with production and maintenance personnel.
Numeracy skills to:	- interpret repair instructions - determine repair schedule timelines - calculate material requirements - use calibration, measuring tools and equipment.
Planning and organising skills to:	follow workplace schedules, timeline and repair plans.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Instructions</i> must include:	- drawings and designs - fault diagnosis - job sheets - repair instructions - reporting and communications - service schedules - work plans - workplace procedures relating to repairing plant, tools, equipment and systems.
<i>Workplace procedures</i> must include:	- equipment use - recording and reporting - repair, testing, maintenance and storage - work health and safety (WHS) requirements.

Unit Mapping Information

No equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>

Assessment Requirements for AUMATK009 Repair vehicle plant, tools, equipment and systems

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Performance Evidence

Before competency can be determined, individuals must have competently repaired plant, tools, equipment and systems on a minimum of two occasions.

Individuals must demonstrate they can:

- discuss repair plans and schedules with production and maintenance personnel
- repair plant, tools, equipment and systems according to workplace procedures and work health and safety (WHS) requirements
- prepare repair plans for vehicle plant, tools, equipment and systems
- test, calibrate and adjust re-commissioned plant, tools, equipment and systems
- achieve work quality goals relating to the repair of vehicle plant, tools, equipment and systems
- complete required housekeeping and documentation relating to the repair of vehicle plant, tools, equipment and systems.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements when repairing plant, tools, equipment and systems
- workplace procedures to repair plant, tools, equipment and systems
- methods of preparing and calibrating equipment
- operation of plant, tools, equipment and systems
- types of tools and equipment and procedures for their safe use, operation and maintenance
- techniques for identifying and resolving problems
- procedures for reporting and recording repair records and information.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the repair of vehicle plant, tools, equipment and systems that they have worked on, e.g. work orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive manufacturing workplace or simulated workplace
- WHS requirements to repair plant, tools, equipment and systems
- tools and equipment to conduct repairs
- plant, tools, equipment and systems used in the production of motor vehicles that require repairs
- workplace repair instructions, plans and procedures
- repair instructions, work plans and specifications relating to the repair of vehicle plant, tools, equipment and systems.

Links

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