



Australian Government

AUMATK004 Use and maintain measuring equipment

Release: 1

AUMATK004 Use and maintain measuring equipment

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATK4004 Use measuring equipment

Application

This unit describes the performance outcomes required to use, adjust and maintain measuring equipment used in automotive development, service and repair.

It applies to those in an automotive and related component manufacturing environment at a production worker level.

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

Competency Field

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. Prepare to carry out measurements	1.1 <i>Measuring instructions</i> and work plans are identified and interpreted 1.2 Measuring methods appropriate to the circumstances are selected according to workplace procedures 1.3 <i>Measuring equipment</i> is selected and checked to ensure it is calibrated within appropriate tolerances
2. Carry out measurements	2.1 Measurement is carried out according to workplace

Elements	Performance Criteria
and analyse results	procedures and equipment manufacturer specifications 2.2 Measurement results are compared with specifications to assess compliance or non-compliance 2.3 Results are documented and recommendations are made
3. Maintain measuring equipment	3.1 Information required for equipment maintenance is accessed from manufacturer specifications and interpreted 3.2 Measuring equipment is checked and calibrated against manufacturer specifications and faulty equipment is tagged and removed from service according to workplace procedures 3.3 Measuring equipment is maintained and stored and maintenance records are completed according to workplace and equipment manufacturer specifications

Foundation Skills

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

Skills	Description
Reading skills to:	- identify job requirements from work plan - interpret workplace procedures and manufacturer specifications relating to the calibration, use and maintenance of tools and equipment.
Writing skills to:	- document measurement results and recommendations - complete faulty equipment tags and maintenance records.
Numeracy skills to:	- interpret numerical information in workplace procedures and manufacturer specifications to calibrate, use and maintain tools and equipment - interpret measurement results and compare with specifications to indicate compliance or non-compliance - list measurements.
Digital literacy skills to:	use measuring equipment with integrated computer controls.
Problem-solving skills to:	interpret measurement results and make recommendations.

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>Measuring instructions</i> must include:	• job sheets, work plans, specifications, drawings and designs • manufacturing instructions.
<i>Measuring equipment</i> must include:	• callipers, vernier callipers, dividers and feeler gauges • ohm meters, volt meters, amp meters, pressure gauges, torsion wrenches.

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 AUMATK004 Use and maintain measuring equipment

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Performance Evidence

Before competency can be determined, individuals must have competently used measuring equipment on a minimum of three occasions.

Individuals must demonstrate they can:

- observe workplace procedures relating to the use and maintenance of measuring equipment
- select measuring equipment
- check the currency of calibration of the measuring equipment
- use a range of relevant measuring equipment
- carry out maintenance of measuring equipment
- store measuring equipment.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- workplace procedures and work health and safety requirements relating to the use and maintenance of measuring equipment
- types of measuring equipment
- procedures for calibrating measuring equipment
- handling and storage of measuring equipment
- procedures for recording results and reporting equipment faults.

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 using and maintaining measuring equipment, 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
- measuring equipment required in the production process
- measuring equipment operating procedures
- workplace procedures relating to the use and maintenance of measuring equipment
- procedures for calibrating measuring equipment.

Links

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