



Australian Government

AUMATK005 Calibrate measuring equipment

Release: 1

AUMATK005 Calibrate measuring equipment

Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATK4005 Calibrate measuring equipment in automotive development

Application

This unit describes the performance outcomes required to calibrate mechanical, electrical and gas measuring equipment used in automotive development.

It applies to those in an automotive and related component 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. Prepare to calibrate equipment	1.1 Calibration <i>instructions</i> , work plans and workplace checklists are read and interpreted to identify processes 1.2 Calibration equipment is checked for accuracy and currency 1.3 Testing sequence and specified procedures are determined according to industry standards, manufacturer instructions and workplace procedures
2. Regulate equipment	2.1 Calibration equipment is used and readings are recorded according to <i>workplace procedures</i>

Elements	Performance Criteria
	2.2 Calibration equipment is adjusted according to instructions 2.3 Calibration equipment is re-tested to validate adjusted reading
3. Complete work processes	3.1 Calibration equipment is re-tagged with currency and standard of calibration 3.2 Evidence of wear, malfunction or out-of-tolerance adjustments is detected, reported and repaired within scope of authority 3.3 Equipment and tools are cleaned, inspected for serviceable condition, and stored at the completion of the process 3.4 Work area is cleaned and restored 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 job requirements from calibrating instructions and work plans - identify workplace procedures relevant to calibrating measurement equipment - interpret manufacturer instructions to calibrate measuring equipment.
Writing skills to:	- document measurement results - complete faulty equipment reports.
Oral communication skills to:	speak clearly and directly in order to communicate equipment calibrating activities.
Numeracy skills to:	- interpret numerical information in workplace procedures and manufacturer calibrating instructions - interpret measurement results and compare with specifications - list measurements.
Digital literacy skills to:	use measuring equipment with integrated computer controls.
Planning and organising skills to:	manage work time and organise work priorities.
Problem-solving skills to:	access, interpret and apply calibrating information, instructions and workplace procedures, particularly to testing sequences and

	requirements.
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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:	• calibration specifications • industry code of practice and standards • job sheets • manufacturer instructions • use and operation of tools and equipment • work plans.
<i>Workplace procedures</i> must include:	• use, maintenance and storage of calibration equipment • procedure manuals • quality and continuous improvement programs • recording and reporting • 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 AUMATK005 Calibrate measuring equipment

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Performance Evidence

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

Individuals must demonstrate they can:

- comply with relevant regulations, standards, codes of practice, workplace procedures and established safe practices when calibrating measuring equipment
- plan for and calibrate automotive measuring equipment
- complete workplace documentation relating to calibrating measuring equipment.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) requirements relating to calibrating measuring equipment
- industry code of practice for calibrating equipment
- key features of calibration equipment and procedures for its safe use, maintenance and adjustment
- calibration problem identification and resolution methods
- procedures for recording, reporting and maintaining workplace records.

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 measuring equipment that they have calibrated, 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 that requires calibrating
- manufacturer instructions and procedures for calibrating equipment
- workplace procedures and WHS requirements relating to calibrating measurement equipment to a standard
- calibrating equipment.

Links

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