



Australian Government

AURTTA003 Use and maintain basic mechanical measuring devices

Release: 1

AURTTA003 Use and maintain basic mechanical measuring devices

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to use and maintain basic mechanical measuring devices. It involves selecting, using and maintaining basic measuring devices, and completing workplace processes and documentation.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation to entering the automotive service and repair or automotive manufacturing industry. The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical

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 and italicised text is used, further information is detailed in the range of conditions section.
1. Select and use basic mechanical measuring devices	1.1 Task instructions are interpreted and vehicle to be worked on is identified 1.2 Measuring device information is sourced and interpreted

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.3 Potential hazards and risks associated with the task are identified and reported to workplace supervisor 1.4 Measuring devices are selected to meet job requirements, and checked for serviceability and calibration according to manufacturer specifications and workplace procedures 1.5 Measuring devices are used according to manufacturer specifications, workplace procedures and safety requirements
2. Maintain devices	2.1 Measuring devices are maintained and stored according to manufacturer specifications and workplace procedures 2.2 Faulty devices are tagged and reported according to workplace procedures as required
3. Complete work processes	3.1 Final inspection is made to ensure work meets task instructions and workplace standards 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected and stored 3.3 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate information.
Reading skills to:	interpret key information from manufacturer specifications, workplace procedures and safety requirements relating to maintenance procedures and specifications.
Writing skills to:	legibly and accurately fill out workplace documentation, including tags, using correct industry terminology and conventions.
Oral communication skills to:	participate effectively in verbal exchanges using questioning and active listening to request, clarify and clearly convey information.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate distances and tolerances from

Skills	Description
	manufacturer specifications.

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>Safety requirements</i> must include:	work health and safety (WHS) and occupational health and safety (OHS) requirements, including safe operating procedures for basic mechanical measuring devices.
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Unit Mapping Information

Equivalent to AURTTA1003 Use and maintain basic measuring devices

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURTTA003 Use and maintain basic mechanical measuring devices

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- use and maintain three of the following basic mechanical measuring devices:
 - inside and outside calipers
 - steel rulers
 - depth gauges
 - spirit levels
 - tape measures
 - squares
 - T-squares
 - straight edges.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to using and maintaining basic mechanical measuring devices, including safe operating procedures for basic mechanical measuring devices
- types, uses, limitations and operating procedures for the basic mechanical measuring devices specified in the performance evidence
- procedures for selecting measuring devices
- procedures for identifying and tagging faulty measuring devices
- basic maintenance, adjustment, calibration and storage procedures for mechanical measuring devices.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the mechanical measuring devices they have used and maintained, e.g. repair 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 workplace or simulated workplace
- task instructions
- manufacturer mechanical measuring device specifications
- basic mechanical measuring devices specified in the performance evidence
- vehicles, components or materials that require the use of basic mechanical measuring devices
- tools, equipment and materials appropriate for using and maintaining basic mechanical measuring devices.

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