



Australian Government

MEM15017 Use and maintain reference standards

Release: 1

MEM15017 Use and maintain reference standards

Modification History

Release 1. Supersedes and is equivalent to MEM15017B Use and maintain reference standards.

Application

This unit of competency defines the skills and knowledge required to care for and maintain reference standards and test equipment used to undertake trade measurement activities and is designed for those personnel performing trade measurement inspection/certification activities in public or private enterprises.

This unit can be applied in relation to inspection of pre-packed articles, examining trading practices, auditing servicing licensees, investigating consumer complaints, performing verification/certification and in-service inspection.

Where interpretation of technical drawings is required, unit MEM09002 Interpret technical drawing should also be selected.

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

Band: B

Unit Weight: 3

Pre-requisite Unit

MEM11011 Undertake manual handling

MEM12003 Perform precision mechanical measurement

MEM12004 Perform precision electrical/electronic measurement

MEM12005 Calibrate measuring equipment

MEM12023 Perform engineering measurements

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

MEM18001 Use hand tools

MEM18002 Use power tools/hand held operations

Competency Field

Quality

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine job requirements	1.1 Follow standard operating procedures (SOPs) 1.2 Comply with work health and safety (WHS) requirements at all times 1.3 Identify tolerances required for reference standards in relation to testing trade measuring instruments and legislation from appropriate research materials 1.4 Select the correct classes of reference standards to test trade measuring instruments
2. Use reference standards and test equipment in a safe and metrologically sound manner	2.1 Perform an operational assessment of reference standards and test equipment prior to use 2.2 Assess and follow documented operating policies and procedures for reference standards and test equipment 2.3 Follow safety requirements for the use of reference standards and test equipment within the work environment
3. Store and transport reference standards and test equipment	3.1 Store specialised equipment and reference standards in accordance with organisational procedures 3.2 Transport specialised equipment and reference standards in accordance with organisational procedures
4. Perform required maintenance of reference standards and test equipment	4.1 Identify maintenance requirements of reference standards and test equipment 4.2 Undertake regular maintenance of reference standards and test equipment in accordance with maintenance register 4.3 Identify defective reference standards and test equipment and report for repair in accordance with organisational procedures
5. Interpret documentation relating to the use of maintenance of reference standards and test equipment	5.1 Check information contained in the certificate of verification and compare with reference standards and test equipment being used 5.2 Use reference standards in accordance with documented instructions and certificates

Foundation Skills

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

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different 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.

WHS considerations include one or more of the following:	<ul style="list-style-type: none"> • storage and transportation of test equipment • handling test equipment • handling hazardous materials • safety clothing • manual handling techniques • site/premises conditions.
Reference standards include one or more of the following:	<ul style="list-style-type: none"> • mass • volume • density • area • length • master meters • temperature.
Legislation includes one or more of the following:	<ul style="list-style-type: none"> • enabling legislation • WHS • environmental legislation.
Research materials and operating policies and procedures include one or more of the following:	<ul style="list-style-type: none"> • <i>Australian Standards</i> • legislation • handbook of verifying authority • manufacturers' operating manuals • manufacturers' specifications • organisational procedures • quality assured manual • industry guidelines.
Specialised equipment includes one or more of the following:	<ul style="list-style-type: none"> • reference standards • measuring devices • safety equipment.
Maintenance requirements of reference standards and test equipment includes	<ul style="list-style-type: none"> • cleaning and painting • electrical safety testing and tagging

one or more of the following:	<ul style="list-style-type: none">• continuity testing• pressure testing• manufacturers' service requirements.
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Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM15017B Use and maintain reference standards.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>