



Australian Government

MSMTMVER402 Verify liquid measuring instruments using volume measures

Release: 2

MSMTMVER402 Verify liquid measuring instruments using volume measures

Modification History

Release 2. Adjustments to the Application and Range of Conditions. Adjustment to the Assessment Conditions. Equivalent.

Release 1. Supersedes and is equivalent to MSATMVER402A Verify liquid measuring instruments using volume measures

Application

This unit of competency covers the ability to apply National Instrument Test Procedures to determine whether liquid measuring instruments of a particular class, tested using volume measures, are suitable for trade use and to mark them accordingly.

This unit of competency is applicable to verifiers operating under a servicing licence to test and mark a specific class of liquid measuring instruments tested using a volume measure only. Liquid measuring instruments are used in a very wide range of commerce. For example, petrol dispensers measure fuel at the point of sale and flowmeters are used to measure bulk commodities, such as milk, chemicals and petroleum products during production and distribution. The verification tests are performed over extended durations in non-routine and hazardous environments.

Depending on the site, verifiers may be required to meet additional local safety requirements such as basic first aid, confined space entry, working with hazardous materials, working at heights, working with heavy machinery, use of appropriate workplace clearance forms and completing site safety induction.

Under the requirements of Regulation 2.43 of the *National Trade Measurement Regulations 2009*, a servicing licensee or an employee must not verify a measuring instrument relevant to this unit unless they hold a statement of attainment for this unit of competency.

Pre-requisite Unit

Nil

Competency Field

Trade measurement

Unit Sector

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes

demonstrate achievement of the element

- | | | | |
|---|--|-----|--|
| 1 | Prepare for verification | 1.1 | Identify and evaluate the type of instrument to be verified |
| | | 1.2 | Access and correctly interpret documentation required for the verification |
| | | 1.3 | Identify and access test equipment, products and consumables required for the verification |
| | | 1.4 | Liaise with the trader to provide the items required on site |
| | | 1.5 | Ensure specified test equipment is fit for purpose in accordance with applicable legislation and organisational procedures |
| | | 1.6 | Store and transport test equipment in accordance with organisational procedures and industry best practice |
| | | 1.7 | Identify relevant local workplace health and safety issues and implement appropriate control strategies |
| | | | |
| 2 | Evaluate liquid measuring instrument performance | 2.1 | Evaluate whether the operating environment will impact on the instrument performance |
| | | 2.2 | Modify the operating environment or implement alternative arrangements to ensure reliable test conditions as necessary |
| | | 2.3 | Identify the maximum permissible errors for the instrument from the legislative requirements |
| | | 2.4 | Use test equipment safely in accordance with applicable legislation and organisational procedures |
| | | 2.5 | Check instrument for compliance with the appropriate Certificates of Approval |
| | | 2.6 | Inspect the instrument in accordance with relevant National Instrument Test Procedures and appropriate National Measurement Institute (NMI) guidance |
| | | 2.7 | Evaluate results against prescribed performance criteria and determine if the instrument is suitable for trade use |

- in accordance with legislative requirements
- | | | | |
|---|--|-----|--|
| 3 | Report verification results | 3.1 | Display the verification result on the instrument in accordance with legislative requirements |
| | | 3.2 | Use test reports to present verification results in the required format |
| | | 3.3 | Complete verification documentation in accordance with legislative requirements and organisational procedures |
| | | 3.4 | Communicate results within the specified time and in accordance with organisational guidelines |
| | | | |
| 4 | Model and encourage compliance with statutory requirements | 4.1 | Apply organisation's quality procedures and practices to meet servicing licensee's legislative obligations |
| | | 4.2 | Clarify any issues about verifier obligations with their servicing licensee and/or licensing administering authority as they arise |
| | | 4.3 | Review work and seek feedback from others to confirm continuing compliance with legislative requirements |
| | | 4.4 | Identify implications of non-compliance with legislative requirements |
| | | 4.5 | Identify inadequacies in trader's use of instruments which may contribute to non-compliance with national measurement legislation |
| | | 4.6 | Explain inadequacies and possible remedial actions to trader |
| | | 4.7 | Respect the rights of the trader at all times |
| | | | |
| 5 | Maintain statutory records | 5.1 | Keep accurate and complete records in accordance with servicing licensee's legislative requirements |
| | | 5.2 | Ensure authorisation, training and relevant licences are current in accordance with organisational and servicing licensee's legislative requirements |
| | | 5.3 | Inform the licensing administering authority of changes |

to personal information as required by statute

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.

National Instrument Test Procedures include one or more of:

- measuring instrument test procedures
- any other test procedure prescribed by the NMI

Classes of liquid measuring instruments using volume measures include one or more of:

- fuel dispensers other than LPG dispensers
- milk flowmeters tested using a volume measure
- any other liquid measuring instrument prescribed by the NMI

Test equipment includes:

- reference standards of measurement
- equipment, such as a small measure, dummy nozzle, safety equipment and hand tools

Certificates of Approval include:

- any Certificate issued by the Chief Metrologist under Regulation 60 of the *National Measurement Regulations 1999* approving the pattern of a liquid measuring instrument using volume measures as being suitable for trade use

Prescribed performance criteria for liquid measuring instruments include:

- that the instrument is of an approved pattern
- that the instrument operates within the appropriate limits of error permitted by legislation
- that the instrument is used in accordance with any legislative requirements

Verification	Has the same meaning as Section 18GG of the <i>National Measurement Act 1960</i>
Verification marks	Verification marks for different instruments are defined in Regulations 2.28 and 2.29 of the <i>National Trade Measurement Regulations 2009</i>
Trading practices include one or more of:	<ul style="list-style-type: none">• methods used for the sale of goods• using measuring instruments• position of measuring instruments• environmental factors• suitability of instrument• incorrect measurement
Legislation includes:	<ul style="list-style-type: none">• national measurement legislation• applicable Commonwealth, state and territory work/occupational health and safety (WHS/OHS) legislation
NMI guidance includes:	<ul style="list-style-type: none">• NMI sanctioned variances to National Instrument Test Procedures for verification• updates• directives
WHS/OHS and environmental management requirements include:	<ul style="list-style-type: none">• complying with WHS/OHS and environmental management requirements at all times, which may be imposed through state/territory or federal legislation. These requirements must not be compromised at any time• applying standard precautions relating to the potentially hazardous nature of material/product measured• applying any necessary hygiene controls

Unit Mapping Information

Release 2. Adjustments to the Application and Range of Conditions. Adjustment to the Assessment Conditions. Equivalent.

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>