



Australian Government

MSMTMINS302 Inspect a range of simple measuring instruments

Release: 2

MSMTMINS302 Inspect a range of simple measuring instruments

Modification History

Release 2. Correction to Application, Performance Criteria and adjustment to Range, Performance Evidence and Assessment Conditions. Equivalent.

Release 1. Supersedes and is equivalent to MSATMINS302A Inspect a range of simple measuring instruments

Application

This unit of competency covers the ability to apply National Instrument Test Procedures to determine whether a range of simple measuring instruments are suitable for trade use. The unit also involves assessing the performance of verifiers, by auditing recently verified simple measuring instruments, to ensure they meet the legislative requirements for trade use.

This unit of competency is applicable to trade measurement inspectors appointed under national measurement legislation who may inspect a wide range of simple measuring instruments as part of their allocated duties. Simple measuring instruments are used in a very wide range of commerce. Measuring instruments are used to measure liquids in tanks; multi-dimensional measuring instruments are used to measure the cubic measurements of packages for freight; length/area instruments are used to measure a wide range of articles sold by reference to those measurements; quality measuring instruments are used to measure certain characteristics of commodities such as protein content of grain; and point of sale systems (POS systems) and control systems for liquid-measuring instruments (Consoles) are systems connected to approved measuring instruments that are used to transform or supplement displayed and/or printed measurement data and/or control certain functions of the connected instrument.

While no specific licensing or certification requirements apply to this unit at the time of publication, all inspection activity is legislated under the *National Measurement Act 1960*.

Pre-requisite Unit

Nil

Competency Field

Trade measurement

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes

Performance criteria describe the performance needed to demonstrate achievement of the element

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| 1 | Prepare for inspection | 1.1 | Identify and evaluate the type of instrument to be inspected |
| | | 1.2 | Access and review any history of previous inspections of the instrument |
| | | 1.3 | Access and correctly interpret appropriate documentation required for the inspection |
| | | 1.4 | Identify and access test equipment, products and consumables required for the inspection |
| | | 1.5 | Ensure specified test equipment or reference material is fit for purpose in accordance with applicable legislation and organisational procedures, as appropriate |
| | | 1.6 | Store and transport test equipment or reference material in accordance with organisational procedures and industry best practice, as appropriate |
| | | 1.7 | Identify workplace health and safety issues relevant to the inspection |
| 2 | Initiate inspection | 2.1 | Identify the site controller, explain the purpose of the inspection and produce formal identification, if required |
| | | 2.2 | Identify relevant site health and safety issues and implement appropriate control strategies |
| | | 2.3 | Conduct a preliminary evaluation of the site's trading practices and prioritise activities to maximise inspection outcomes |
| | | 2.4 | Identify instruments used for trade and plan inspection to minimise disruption to the public and trader |
| | | 2.5 | Identify locations for product return or disposal, as appropriate |
| 3 | Evaluate simple measuring instrument performance | 3.1 | Evaluate whether the operating environment impacts the instrument's performance |
| | | 3.2 | If necessary, modify the operating environment or implement alternative arrangements to ensure reliable |

- test conditions
- 3.3 Identify the instrument's maximum permissible errors as specified by the legislative requirements
 - 3.4 Use any test equipment safely in accordance with applicable legislation and organisational procedures
 - 3.5 Check instrument for compliance with the appropriate Certificates of Approval
 - 3.6 Inspect the instrument in accordance with relevant National Instrument Test Procedures and appropriate National Measurement Institute (NMI) policy
 - 3.7 Evaluate results against prescribed performance criteria and determine if the instrument is suitable for trade use in accordance with legislative requirements
- 4 Conduct a verifier instrument audit
- 4.1 Identify the scope of the verifier instrument audit
 - 4.2 Identify the expected outcomes of the verifier instrument audit
 - 4.3 Assess the instrument's performance against the expected outcome
 - 4.4 Check that the verification mark complies with legislation
 - 5.5 Analyse any variances from the expected outcomes to identify isolated or systemic problems
- 5 Analyse and report inspection results
- 5.1 Analyse inspection data for unacceptable performance trends
 - 5.2 If required, display the inspection result on the instrument in accordance with legislative requirements
 - 5.3 Use test reports to present inspection results in the required format
 - 5.4 Complete inspection documentation in accordance with legislative requirements and organisational procedures
 - 5.5 Communicate inspection results within the specified

		time and in accordance with organisational guidelines
	5.6	Recommend follow-up actions as appropriate
6	Act on non-compliance	6.1 Select applicable enforcement action for the non-compliance in accordance with legislative requirements and organisational policy and procedures 6.2 Inform traders of non-compliances and consequences of failing to have them corrected 6.3 Implement enforcement action in accordance with legislative requirements and organisational policy and procedures 6.4 Respect the rights of the trader at all times

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 simple measuring instruments include one or more of:

- beverage dispensers
- protein quality measuring instruments
- grain density measuring instrument
- sugar quality measuring instruments
- length measuring instruments
- area measuring instruments
- dimensional measuring instruments
- vehicle tanks
- farm milk tanks

	• POS systems • consoles • point of sale systems • control systems • any other instrument prescribed by the NMI
Test equipment and materials include:	• reference standards of measurement • certified reference materials, such as grain for testing protein measuring instruments • equipment, such as weighing instruments, strikes, funnels, water meters, beakers, roman levels, trammels and pocket length comparators
Certificates of Approval include:	• any Certificate issued by the Chief Metrologist under Regulation 60 of the <i>National Measurement Regulations 1999</i> approving the pattern of a simple measuring instrument as being suitable for trade
Prescribed performance criteria for simple 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:	• methods used for the sale of goods • using measuring instruments • position of measuring instruments • environmental factors • suitability of instrument • incorrect measurement

- Legislation includes:**
- national measurement legislation
 - applicable Commonwealth, state and territory work/occupational health and safety (WHS/OHS) legislation
- Enforcement actions include one or more of:**
- formal warnings, infringement notices, undertakings, injunction and prosecutions
- NMI policy includes:**
- test procedure variations between a verification, in-service or audit inspection
 - bulletins
 - instructions
 - determinations
- WHS/OHS and environmental management requirements include:**
- 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

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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>