



**Australian Government**

# **Assessment Requirements for MSL904002 Perform standard calibrations**

**Release: 1**

# Assessment Requirements for MSL904002 Perform standard calibrations

## Modification History

Release	Comments
Release 1	<p>This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>.</p> <p>Supersedes and equivalent to MSL904001 Perform standard calibrations. Foundation skills information added. Range of conditions removed. Assessment requirements amended. Equivalent outcome.</p>

## Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- safely and accurately calibrated a minimum of 3 different items of test and/or measurement equipment from the following list:
  - balance
  - thermometer
  - thermocouple
  - pH meter
  - refractive index meter
  - viscosity meter
  - flow meter (including digital)
  - volumetric dispenser including auto-pipette (POVAs)
  - volumetric glass (once for life time)
  - spectrophotometer
  - incubator/oven/fridge
  - digestion block
  - biological safety cabinet
  - fume cupboard.

Calibrations must be carried out in accordance with standard calibration procedures and documented test methods.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- purpose of metrology and calibration, including common terminology, concepts, principles, procedures and applications
- National Association of Testing Authority's (NATA) and National Measurement Institute's (NMI) role in the measurement and testing system in Australia and registration/licensing requirements
- requirements for the competence of testing and calibration laboratories (e.g. AS ISO/IEC 17025) as they affect job role and responsibilities
- Australian and international standards and codes covering requirements for the competence of testing and calibration laboratories
- standards imposed by regulatory and licensing bodies
- statistical analysis of quality control data, mean, median, mode, ranges and standard deviations
- hierarchy and appropriate selection of reference materials and instruments
- commonly used reference materials and working standards
- test equipment relevant to job role
- workplace procedures for:
  - non-conformance/non-compliance
  - equipment operation
  - calibration
  - troubleshooting for equipment and test methods
  - recording and reporting
  - handling, transport, storage and operation of reference and working standards
  - test methods and calibration (validated and authorised)
- different fields in which calibration work is conducted
- workplace and/or legal traceability requirements
- legal, ethical and work health and safety (WHS) requirements specific to the work task.

## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - specialised calibration/test equipment, reference standards and laboratory facilities
  - calibration methods, procedures and equipment specifications
  - workplace quality manual and procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

MSL Laboratory Operations Companion Volume Implementation Guide is available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c63a03b-4a6b-4ae5-9560-1e3c5f462baa>