



Australian Government

Assessment Requirements for MSL905006

Create or modify automated calibration procedures

Release: 1

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Modification History

Release	Comments
Release 1	This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>. Supersedes and equivalent to MSL905003 Create or modify automated calibration procedures. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Performance Evidence

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

- created, edited, tested and documented at least 1 computer controlled calibration procedure, including:
 - estimating measurement uncertainty and applying statistical techniques for analysing test and/or calibration data
 - critically examining each calibration step to ensure repeatability and validity of data.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- procedures, and implications, for creating or modifying automated calibration procedures
- registration/licensing and/or National Association of Testing Authorities (NATA) accreditation requirements
- Australian and international standards covering accuracy of measurement methods and results, expression of uncertainty (GUM), quantifying uncertainty in analytical measurement, quality assurance of measurement equipment
- quality manuals, equipment and operating/technical manuals
- test methods and calibration procedures published by international, national or regional standards, reputable technical organisations, scientific texts or journals and equipment manufacturers, and the hierarchy of these reference materials
- structure and terminology used in standard calibration methods, procedures, requests and instructions
- computer operation/automation using graphical user interfaces
- handling, transport, storage and operation of reference and working standards
- workplace procedures for:

- automated calibration methods equipment and testing method troubleshooting
- calculation procedures to give results in appropriate accuracy, precision and units
- documenting calibration procedures
- laboratory environmental control
- test methods (validated and authorised)
- methods for statistical analysis (means, ranges and standard deviations) and estimation of uncertainty of measurement (may include the use of software)
- 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 materials and laboratory facilities
 - access to a library of calibration methods, procedures and equipment specifications
 - laboratory calibration software and programs and manufacturer's proprietary software
 - 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>