



Australian Government

Assessment Requirements for MSL977005

Validate test methods

Release: 1

Assessment Requirements for MSL977005 Validate test methods

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 <i>MSL977003 Contribute to validation of test methods</i>. Range of conditions removed. Assessment requirements amended.</p>

Performance Evidence

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

- validated at least 2 test methods using authorised protocols to ensure they are based on sound scientific principles and are fit for purpose.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles, concepts and workplace/regulatory requirements related to method validation and reporting
- calculation steps, mathematical and statistical techniques used to analyse results
- principles and procedures of testing equipment operation
- characteristics, capabilities and limitations of equipment
- variables which should be validated and criteria for choice
- purposes of validation:
 - identification and impartial resolution of ethical issues, such as conflict of interest
 - ethical decision making
 - provision of products and services which match the operational and financial needs of stakeholders, including realistic quotes for work
 - accurate representation of skills, services, knowledge and qualifications of individuals and the organisation
 - acknowledgment of services and products developed by others, intellectual property (IP) and copyright
 - provision of unbiased, accurate and appropriately qualified information results
- validation protocols:

- checks that are considered to ensure performance characteristics of test method are scientifically sound
- checks, including:
 - selectivity
 - linearity
 - range
 - sensitivity
 - limit of detection
 - limit of quantitation
 - accuracy
 - precision
 - recovery
 - ruggedness
- assessment of the clarity and completeness of the description of the method
- workplace and/or legal traceability requirements
- awareness of environmental sustainability issues as they relate to the work task
- 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:
 - a standard laboratory equipped with appropriate equipment, instruments, reagents, samples and test methods
 - validation protocols.

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

Links

Training Package Companion Volumes -

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