



Australian Government

Assessment Requirements for MSL976006

Evaluate and select appropriate test methods and/or procedures

Release: 1

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Modification History

Release 1. Supersedes and equivalent to MSL976005 Evaluate and select appropriate test methods and/or procedures. Minor changes to Performance Criteria. Some mathematical content moved from Foundation Skills to Knowledge Evidence. Some items removed from Knowledge Evidence requirements around common types of tests and procedures to allow for broader application.

Performance Evidence

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

- evaluated and selected test methods and/or procedures for at least 2 different items or laboratory processes.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles, concepts and workplace and regulatory requirements related to method selection
- regulatory and licensing requirements related to selected test methods
- scientific and technical principles underpinning test method and their application to selection of testing methods for different materials
- the role and importance of accuracy, precision, uncertainty, linearity, selectivity, range, limit of detection and matrix characteristics in method selection
- calculation steps for data analysis and estimation of uncertainties for selected test methods
- significance of normal, physiological or reference ranges
- common types of tests and procedures relevant to the job role
- drivers for the evaluation and selection of test methods and procedures
- factors that typically influence method evaluation and selection, including:
 - quantity and nature of sample available for testing
 - levels of detection required
 - type of matrix, possible contaminants and resulting interference
 - safety
 - availability of suitable equipment, instruments and availability of trained staff
 - cost
 - selectivity of method, range, accuracy, precision and acceptable uncertainty
 - whether it is appropriate/ethical to perform the test
 - balancing customer, workplace and/or regulatory/licensing requirements

- workplace and/or legal traceability requirements
- awareness of environmental sustainability issues as they relate 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, analytical instruments and reagents
 - Australian and international regulatory standards relevant to scope of laboratory operations
 - workplace procedures, including test methods.

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>