



Australian Government

**Assessment Requirements for MSL973022
Conduct laboratory-based acceptance tests
for construction materials**

Release: 1

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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 MSL973010 Conduct laboratory-based acceptance tests for construction materials. Foundation skill information added. 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:

- safely prepared at least 3 different laboratory samples or test pieces and conducted laboratory tests on them to confirm their acceptability
- safely conducted laboratory-based acceptance tests in accordance with workplace procedures and test methods to provide reliable data within the required timeframe.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the purpose and principles of construction materials tests performed as part of job role and key preparation/measurement steps in the test methods
- the properties of construction materials under test
- calculation steps to give results in appropriate units and precision
- expected values for sample type and sources of uncertainty (and methods for control) in construction materials tests routinely used in job role
- workplace procedures for:
 - pre-use checks and operating test equipment routinely used in job role
 - recording and reporting test results, calculations, test observations, and unexpected or atypical results and equipment problems
 - ensuring traceability of samples, test pieces, test data and results
 - confidentiality
 - waste minimisation and safe disposal
 - sampling and testing procedures for specific sites, clients and samples
 - workplace safety

- awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and workplace 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:
 - sample preparation and test equipment and materials specified in the test method
 - test methods and description of test set-up, data sets and records
 - calculator and/or computer and relevant software or laboratory information system.

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>