



Australian Government

MSL20118 Certificate II in Sampling and Measurement

Release 1

MSL20118 Certificate II in Sampling and Measurement

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 is equivalent to MSL20116 Certificate II in Sampling and Measurement. Unit codes updated</p>

Qualification Description

This qualification covers the skills and knowledge required to perform a range of sampling and measurement activities as part of laboratory, production or field operations in the construction, manufacturing, resources and environmental industry sectors.

Employment outcomes targeted by this qualification include samplers and testers, production personnel, plant operators, production operators, field assistants, drivers, sample couriers and many others.

Samplers and testers conduct limited sampling and testing as part of their duties in their particular industry. They apply a restricted range of skills and operational knowledge to perform these tasks and do not generally work inside a laboratory. They:

- follow set procedures to sample raw materials and products
- may package, label, store and transport samples
- use simple equipment (hydrometers, thermometers and pH meters) to make measurements and perform basic tests that take a short time and involve a narrow range of variables and easily recognised control limits
- may make visual inspection of products and packaging.

In some industry sectors (for example, mineral assay) this work forms a whole job role.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the MSL20118 Certificate II in Sampling and Measurement competency must be achieved in a total of **eight (8)** units of competency, consisting of:

- **four (4)** core units of competency
- **four (4)** elective units of competency.

Note: Units marked with an asterisk have one or more prerequisite requirements and must be included in the total number of units chosen. Please refer to individual units for details.

Core units of competency

Select all **four (4)** of the following units of competency.

Unit code	Unit title
MSL912001	Work within a laboratory or field workplace (induction)
MSL922001	Record and present data
MSL943004	Participate in laboratory or field workplace safety
MSMENV272	Participate in environmentally sustainable work practices

ELECTIVE UNITS

- Select **four (4)** elective units from Groups A and B, as specified below:
 - a minimum of **two (2)** units must be chosen from Group A
 - the remainder may be chosen from Groups A and B to bring the total number of electives to **four (4)**.

Note that **two (2)** of the elective units may be chosen from this Training Package, other endorsed Training Packages and accredited courses, where those units are available at Certificate II.

Group A Elective units

Unit code	Unit title	Prerequisites
MSL952001	Collect routine site samples	

Unit code	Unit title	Prerequisites
MSL952002	Handle and transport samples or equipment	
MSL972001	Conduct routine site measurements	

Group B Elective units

Unit code	Unit title	Prerequisites
MSL913003	Communicate with other people	
MSL913004	Plan and conduct laboratory/field work	
MSL933005	Maintain the laboratory/field workplace fit for purpose	
MSL933006	Contribute to the achievement of quality objectives	
MSL933007	Apply critical control point requirements	
MSL933008	Perform calibration checks on equipment and assist with its maintenance	
MSL943003	Work safely with instruments that emit ionising radiation	
MSL953003	Receive and prepare samples for testing	
MSL953004	Operate a robotic sample preparation system	
MSL973013	Perform basic tests	
MSL973014	Prepare working solutions	
MSL973015	Prepare culture media	
MSL973016	Perform aseptic techniques	
MSL973017	Assist with fieldwork	
MSL973018	Prepare trial batches for evaluation	
MSL973019	Perform microscopic examination	
MSL973020	Perform histological procedures	

MSL973021	Conduct field-based acceptance tests for construction materials	
MSL973022	Conduct laboratory-based acceptance tests for construction materials	
MSL973023	Perform fire pouring techniques	
MSL973024	Perform site investigation activities	

Qualification Mapping Information

Release 1. Supersedes and is equivalent to MSL20116 Certificate II in Sampling and Measurement.

Links

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

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