



Australian Government

MSL20116 Certificate II in Sampling and Measurement

Release 1

MSL20116 Certificate II in Sampling and Measurement

Modification History

Release 1. Supersedes and is equivalent to MSL20109 Certificate II in Sampling and Measurement

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 MSL20116 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	
MSL943002	Participate in laboratory/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	

MSL952002	Handle and transport samples or equipment	
MSL972001	Conduct routine site measurements	
Group B Elective units		
Unit code	Unit title	Prerequisites
MSL913001	Communicate with other people	
MSL913002	Plan and conduct laboratory/field work	
MSL933001	Maintain the laboratory/field workplace fit for purpose	
MSL933002	Contribute to the achievement of quality objectives	
MSL933003	Apply critical control point requirements	
MSL933004	Perform calibration checks on equipment and assist with its maintenance	
MSL943001	Work safely with instruments that emit ionising radiation	
MSL953001	Receive and prepare samples for testing	
MSL953002	Operate a robotic sample preparation system	
MSL963001	Operate basic handblowing equipment	
MSL963002	Repair glass apparatus using simple glassblowing equipment	*
MSL973001	Perform basic tests	
MSL973002	Prepare working solutions	
MSL973003	Prepare culture media	
MSL973004	Perform aseptic techniques	
MSL973005	Assist with fieldwork	
MSL973006	Prepare trial batches for evaluation	

MSL973007	Perform microscopic examination	
MSL973008	Perform histological procedures	
MSL973009	Conduct field-based acceptance tests for construction materials	
MSL973010	Conduct laboratory-based acceptance tests for construction materials	
MSL973011	Perform fire pouring techniques	
MSL973012	Perform site investigation activities	

Qualification Mapping Information

Release 1. Supersedes and is equivalent to MSL20109 Certificate II in Sampling and Measurement

Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>