



Australian Government

MSL30118 Certificate III in Laboratory Skills

Release 1

MSL30118 Certificate III in Laboratory Skills

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 MSL30116 Certificate III in Laboratory Skills. Unit codes updated</p>

Qualification Description

This qualification covers the skills and knowledge required to perform a limited range of laboratory operations across all industry sectors and is the entry level required for laboratory personnel across all industry sectors.

Employment outcomes targeted by this qualification include laboratory technicians, instrument operators and similar personnel.

Laboratory technicians perform straightforward laboratory work. They follow set procedures and recipes, and apply well developed technical skills and basic scientific knowledge. They generally work inside a laboratory but may also perform technical tasks in the field or within production plants. They may also perform a range of laboratory maintenance and office tasks.

The majority of their work involves a predictable flow of parallel or similar tasks within one scientific discipline. Laboratory technicians:

perform straightforward technical tasks to prepare and test samples using relevant procedures, Australian Standards and readily available advice. These tasks generally require close attention to detail and to the accuracy and precision of measurements. They may require the use of manual or semi-automated techniques

- operate test equipment and instruments and make limited adjustments to their controls
- process and record data and recognise trends and out of control conditions
- solve predictable problems using clear information or known solutions. Where alternatives exist, they are limited and apparent
- work under close and regular supervision, although they may have autonomy for specific tasks and responsibility for their own outputs
- take decisions within defined limits of responsibility

- work as part of a team.

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 MSL30118 Certificate III in Laboratory Skills, competency must be achieved in a total of **thirteen (13)** units of competency, consisting of:

- **six (6)** core units
- **seven (7)** elective units from Groups A and B, chosen as specified below.

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 six (6)** of the following units of competency.

Unit code	Unit title
MSL913003	Communicate with other people
MSL913004	Plan and conduct laboratory/field work
MSL922001	Record and present data
MSL933006	Contribute to the achievement of quality objectives
MSL943004	Participate in laboratory or field workplace safety
MSMENV272	Participate in environmentally sustainable work practices

ELECTIVE UNITS

- Select **seven (7)** elective units from Groups A and B, as specified below:
 - a minimum of **four (4)** 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 **seven (7)**.

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

Group A Elective units

Unit code	Unit title	Prerequisites
MSL933005	Maintain the laboratory/field workplace fit for purpose	
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	

Unit code	Unit title	Prerequisites
	tests for construction materials	
MSL973023	Perform fire pouring techniques	
MSL973024	Perform site investigation activities	
TAEDEL301	Provide work skill instruction	

Group B Elective units

Unit code	Unit title	Prerequisites
MSL904002	Perform standard calibrations	
MSL912001	Work within a laboratory/field workplace (induction)	
MSL914002	Prepare practical science classes and demonstrations	
MSL924003	Process and interpret data	
MSL924004	Use laboratory application software	
MSL934005	Contribute to the ongoing development of HACCP plans	
MSL934006	Apply quality system and continuous improvement processes	
MSL934007	Maintain and control stocks	
MSL944002	Maintain laboratory or field workplace safety	
MSL952001	Collect routine site samples	
MSL952002	Handle and transport samples or equipment	
MSL954004	Obtain representative samples in accordance with sampling plan	
MSL954005	Prepare mineral samples for analysis	

MSL972001	Conduct routine site measurements	
MSL974016	Perform physical and mechanical tests	
MSL974017	Prepare, standardise and use solutions	
MSL974018	Conduct geotechnical site investigations	
MSL974019	Perform chemical tests and procedures	
MSL974020	Perform food tests	
MSL974021	Perform biological procedures	
MSL974022	Undertake environmental field-based monitoring	
MSL974023	Capture and manage scientific images	
MSL974024	Undertake field-based, remote-sensing monitoring	
MSL974025	Prepare tissue and cell cultures	MSL973016 Perform aseptic techniques
MSL974026	Perform tests to determine the properties of construction materials	MSL973022 Conduct laboratory-based acceptance tests for construction materials
MSL974027	Monitor performance of structures	MSL973021 Conduct field-based acceptance tests for construction materials
MSL974028	Classify soils	MSL973021 Conduct field-based acceptance tests for construction materials MSL973022 Conduct laboratory-based acceptance tests for construction materials
MSL974029	Operated an automated mineral analysis system	
MSMENV472	Implement and monitor environmentally sustainable work practices	

Qualification Mapping Information

Release 1. Supersedes and is equivalent to MSL30116 Certificate III in Laboratory Skills.

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>