



Australian Government

MSL30122 Certificate III in Laboratory Skills

Release: 1

MSL30122 Certificate III in Laboratory Skills

Modification History

Release 1. Supersedes and is equivalent to MSL30118 Certificate III in Laboratory Skills. No change to total number of units. MSMENV272 removed from qualification. Core MSL communication unit replaced by a Business Services unit. Elective units added, including MSL units related to anatomy and physiology, Point of Care Testing, and imported units from the Food, Beverage and Pharmaceutical and Health Training Packages.

Qualification Description

This qualification reflects the role of workers who perform a limited range of laboratory operations and is the entry-level qualification required for laboratory personnel across all industry sectors. Job roles include laboratory technicians, instrument operators and similar personnel.

Laboratory technicians perform straightforward laboratory work involving a predictable flow of parallel or similar tasks, usually within one scientific discipline. They follow set procedures and recipes using well-developed technical skills and basic scientific knowledge. Technicians generally work inside a laboratory but may also perform technical tasks in the field or within production plants. They may also perform laboratory maintenance and office tasks.

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

Total number of units = 13

- 5 core units
- 8 elective units, consisting of:
 - at least 4 units from Group A
 - at least 3 additional units from Group A or B
 - 1 unit from the electives listed below or any endorsed Training Package or accredited course – these units must be relevant to the work outcome.

CORE UNITS

Unit code	Unit title	Prerequisites
BSBCMM211	Apply communication skills	
MSL913004	Plan and conduct laboratory/field work	
MSL922002	Record and present data	
MSL933009	Contribute to the achievement of quality objectives	
MSL943004	Participate in laboratory or field workplace safety	

ELECTIVE UNITS

Group A

Unit code	Unit title	Prerequisites
HLTPAT006	Receive, prepare and dispatch pathology specimens (not to be selected with MSL953005)	
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 (not to be selected with MSL934008)	
MSL934008	Maintain instruments and equipment	

	(not to be selected with MSL933008)	
MSL943003	Work safely with instruments that emit ionising radiation	
MSL953005	Receive and prepare samples for testing (not to be selected with HLTPAT006)	
MSL953004	Operate a robotic sample preparation system	
MSL973015	Prepare culture media	
MSL973017	Assist with fieldwork	
MSL973018	Prepare trial batches for evaluation	
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	
MSL973025	Perform basic tests	
MSL973026	Prepare working solutions	
MSL973027	Perform techniques that prevent cross-contamination	
MSL973028	Perform microscopic examination	
MSL973029	Perform histological procedures	
TAEDEL311	Provide work skill instruction	

Group B

Unit code	Unit title	Prerequisites
FBPFST4004	Perform microbiological procedures in the food industry	

FBPSUG2024	Perform standard tests on cane samples	
FBPSUG3007	Perform factory control tests	
FBPFSY3002	Participate in a HACCP team	
MSL904003	Perform standard calibrations	
MSL912002	Work within a laboratory/field workplace	
MSL914002	Prepare practical science classes and demonstrations	
MSL924005	Process and interpret data	
MSL924006	Use laboratory application software	
MSL934009	Apply quality system and continuous improvement processes	
MSL934010	Maintain and control stocks	
MSL944002	Maintain laboratory or field workplace safety	
MSL952003	Collect routine site samples	
MSL952004	Handle and transport samples or equipment	
MSL954005	Prepare mineral samples for analysis	
MSL954006	Relate anatomical and physiological features to laboratory samples	
MSL954007	Obtain representative samples in accordance with sampling plan	
MSL972002	Take routine site measurements	
MSL974016	Perform physical and mechanical tests	
MSL974018	Conduct geotechnical site investigations	
MSL974022	Undertake environmental field-based monitoring	
MSL974023	Capture and manage scientific images	

MSL974026	Perform tests to determine the properties of construction materials	MSL973022 Conduct laboratory-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	
MSL974031	Prepare, standardise and use solutions	
MSL974032	Perform chemical tests and procedures	
MSL974033	Perform food tests	
MSL974034	Perform biological procedures	
MSL974035	Prepare tissue or cell cultures	MSL973027 Perform techniques that prevent cross-contamination
MSL974036	Process body fluid specimens using a point of care testing device	

Qualification Mapping Information

Supersedes and is equivalent to MSL30118 Certificate III in Laboratory Skills.

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>