

**Selection of competency units for training plan
Qualification MSL60109 Advanced Diploma of Laboratory Operations**

To be awarded an *Advanced Diploma of Laboratory Technology*, competency must be achieved in a total of thirteen **(13) units of competency** consisting of:

Core Units

Select all **seven (7)** units of competency listed below.

MSL916001A	Develop and maintain laboratory documentation	MSL916004A	Maintain registration and statutory or legal compliance in work/functional area
MSL916002A	Manage and develop teams	MSL936001A	Maintain quality system and continuous improvement processes within work/functional area
MSL916003A	Supervise laboratory operations in work/functional area	MSL946001A	Implement and monitor OHS and environmental management systems
MSAENV472B	Implement and monitor environmentally sustainable work practices		

Elective units

Select **six (6)** elective units of competency from Groups A and B, as specified below:

- a minimum of **three (3)** 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 **six (6)**.

Note that **three (3)** of the elective may be chosen from this Training Package, other endorsed Training Packages and accredited courses where those units are available for inclusion at Advanced Diploma level.

A minimum of three (3) units must be selected from 'Group A' below		MSL925001A	Analyse data and report results <i>Prerequisite: (MSL924001A)</i>
MSL916005A	Manage complex projects	MSL925002A	Analyse measurements and estimate uncertainties <i>Prerequisite: (MSL924001A)</i>
MSL936002A	Conduct an internal audit of the quality system	MSL935001A	Monitor the quality of test results and data <i>Prerequisite: (MSL924001A)</i>
MSL976001A	Classify building sites	MSL935002A	Assist in the maintenance of reference materials
<i>Prerequisites: Either 1 of these 2 units: (MSL975023A OR MSL975007A); as well as both of these 2 units - (MSL974002A plus MSL973012A)</i>		MSL935003A	Authorise the issue of test results
		<i>Prerequisites: Both of these 2 units - (MSL924001A plus MSL925001A)</i>	
MSL976002A	Prepare plans and quality assurance procedures for environmental field activities	MSL935004A	Maintain instruments and equipment
<i>Prerequisites: Both of these 2 units: (MSL974007A plus MSL975011A)</i>		MSL955001A	Supervise a robotic sample preparation system <i>Prerequisite: (MSL953002A)</i>
MSL976003A	Evaluate and select appropriate test methods and/or procedures	MSL975001A	Perform microbiological tests
MSL977001A	Contribute to the development of products and applications	<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>	
<i>Prerequisite: (MSL976003A)</i>		MSL975002A	Perform haematological tests
MSL977002A	Troubleshoot equipment and/or production processes <i>Prerequisite: (MSL976003A)</i>	<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>	
MSL977003A	Contribute to the validation of test methods <i>Prerequisite: (MSL976003A)</i>	MSL975003A	Perform histological tests
MSL977004A	Develop or adapt analyses and procedures <i>Prerequisite: (MSL976003A)</i>	<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>	
MSL977005A	Integrate data acquisition and interfacing systems <i>Prerequisite: (MSL924002A)</i>	MSL975004A	Perform chemical pathology tests
MSAENV672B	Develop workplace policy and procedures for sustainability	<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>	
A maximum of three (3) units from 'Group B' below		MSL975005A	Conduct sensory analysis
MSL905001A	Perform non-standard calibrations <i>Prerequisite: (MSL904001A)</i>	MSL975006A	Perform immunohaematological tests
MSL905002A	Create or modify calibration procedures	<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>	
<i>Prerequisites: Both of these 2 units - (MSL904001A plus MSL905001A)</i>		MSL975007A	Supervise sampling, inspections and testing at construction sites
MSL905003A	Create or modify automated calibration procedures	<i>Prerequisites: Both of these 2 units: (MSL954001A plus MSL973009A)</i>	
<i>Prerequisites: All of these 3 units - (MSL904001A plus MSL905001A plus MSL905002A)</i>		MSL975008A	Apply electrophoretic techniques
MSL915001A	Provide information to customers	<i>Prerequisites: Either this 1 unit: (MSL973002A) or both of these 2 units: (MSL974001A plus MSL974003A)</i>	
MSL915002A	Schedule laboratory work for a small team		

MSL975009A	Apply routine chromatographic techniques	
<i>Prerequisites: Select 1 of these 2 units: ((MSL974003A or MSL974004A) or all 3 of these units: (MSL973004A plus MSL973007A plus MSL974006A)) as well as 1 of these 2 units: (MSL973002A or MSL974001A)</i>		
MSL975010A	Perform fire assay techniques	
<i>Prerequisites: Either 1 of these 2 units: (MSL954002A or MSL973011A)</i>		
MSL975011A	Design and supervise complex environmental field surveys	
<i>Prerequisite: (MSL974007A)</i>		
MSL975012A	Provide input to production trials	
<i>Prerequisites: Either 1 of these 4 units: (MSL974003A or MSL974004A or MSL974005A or MSL974010A)</i>		
MSL975013A	Perform tissue and cell culture techniques	
<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>		
MSL975014A	Perform molecular biology tests and procedures	
<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>		
MSL975015A	Prepare animal and plant material for display	
<i>Prerequisites: All of these 3 units - (MSL973004A plus MSL973007A plus MSL974006A)</i>		
MSL975016A	Perform complex tests to measure engineering properties of materials	
<i>Prerequisites: Either this 1 unit (MSL973001A) or both of these 2 units (MSL973010A plus MSL974012A)</i>		
MSL975017A	Perform laboratory-based ecological techniques	
<i>Prerequisites: All of these 3 units: (MSL973004A plus MSL973007A plus MSL974006A)</i>		
MSL975018A	Perform complex tests to measure chemical properties of materials	
<i>Prerequisites: Either of these 2 units: (MSL975009A or MSL975020A); as well as 1 of these 2 units: ((MSL974004A or MSL974003A) or all of these 3 units (MSL973004A plus MSL973007A plus MSL974006A)); as well as 1 of these 2 units (MSL973002A or MSL974001A)</i>		
MSL975019A	Apply complex instrumental techniques	
<i>Prerequisites: Either of these 2 units: (MSL975009A or MSL975020A); as well as 1 of these 2 units: ((MSL974004A or MSL974003A) or all of these 3 units (MSL973004A plus MSL973007A plus MSL974006A)); as well as 1 of these 2 units (MSL973002A or MSL974001A)</i>		
MSL975020A	Apply routine spectrometric techniques	
<i>Prerequisites: Either of these 2 units: ((MSL974003A OR MSL974004A) or all of these 3 units (MSL973004A plus MSL973007A plus MSL974006A)) as well as 1 of these 2 units: (MSL973002A OR MSL974001A)</i>		
MSL975021A	Apply routine electrometric techniques	
<i>Prerequisites: Either 1 of these 2 units: ((MSL974003A OR MSL974004A) or all of these 3 units - (MSL973004A plus MSL973007A plus MSL974006A)) as well as 1 of these 2 units: (MSL973002A OR MSL974001A)</i>		
MSL975022A	Perform food analyses	
<i>Prerequisites: Either this 1 unit: (MSL973004A) or all of these 3 units - (MSL973007A plus MSL974004A plus MSL974006A)</i>		
MSL975023A	Supervise geotechnical site investigations	
<i>Prerequisites: Both of these 2 units: (MSL973012A plus MSL974002A)</i>		

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