

To be awarded an *Advanced Diploma of Laboratory Operations* competency must be achieved in a total of **twelve (12)** units of competency (**after completing the Diploma of Laboratory Technology**) consisting of:

**Core units** - all six (6) core units

PMLCOM600B Develop and maintain laboratory documentation

PMLOHS601A Implement and monitor OHS and environmental management systems

PMLORG600B Supervise laboratory operations in work/functional area

PMLORG601B Maintain registration and statutory or legal compliance in work/functional area

PMLQUAL600B Maintain quality system and continuous improvement processes within work/functional area

PMLTEAM600B Manage and develop teams

**Elective units** - six (6) elective units

The elective units must include:

- minimum of three (3) units from the PML600 series
- balance to be chosen from the PML500 series, the PML700 series or relevant units from other endorsed training packages

Core Units – all six (6) units		
PMLCOM600B	Develop and maintain laboratory documentation	✓
PMLOHS601	Implement and monitor OHS and environmental management systems	✓
PMLORG600B	Supervise laboratory operations in work/functional area	✓
PMLORG601	Maintain registration and statutory or legal compliance in work/functional area	✓
PMLQUAL600B	Maintain quality system and continuous improvement processes within work/functional area	✓
PMLTEAM600B	Manage and develop teams	✓
<b>Minimum of three (3) units from the PML600 series</b>		
PMLORG602B	Manage complex projects	
PMLQUAL601B	Conduct an internal audit of the quality system	
PMLTEST601B	Classify building sites <i>(Prerequisites: PMLTEST403B and PMLTEST406A)</i>	
PMLTEST602A	Prepare plans and quality assurance procedures for environmental field activities <i>(Prerequisite: PMLTEST515A)</i>	
PMLTEST603A	Evaluate and select appropriate test methods and/or procedures	
<b>Balance of units to be chosen from the PML500 series and the PML700 series</b>		
PMLCAL500A	Perform non-standard calibrations <i>(Prerequisite: PMLCAL400A)</i>	
PMLCAL501A	Create or modify calibration procedures <i>(Prerequisite: PMLCAL500A)</i>	
PMLCAL502A	Create or modify automated calibration procedures <i>(Prerequisite: PMLCAL501A)</i>	
PMLCOM500B	Provide information to customers	
PMLDATA500B	Analyse data and report results <i>(Prerequisite: PMLDATA400A)</i>	
PMLDATA501B	Use laboratory application software	
PMLMAIN501B	Assist in the maintenance of reference material	
PMLMAIN502A	Maintain instruments and equipment	
PMLQUAL500A	Monitor the quality of test results and data <i>(Prerequisite: PMLDATA400A)</i>	
PMLTEST501B	Perform microbiological tests <i>(Prerequisite: PMLTEST407A)</i>	
PMLTEST502B	Perform haematological tests <i>(Prerequisite: PMLTEST407A)</i>	
PMLTEST503B	Perform histological tests <i>(Prerequisite: PMLTEST310A)</i>	
PMLTEST504B	Perform chemical pathology tests <i>(Prerequisite: PMLTEST407A)</i>	
PMLTEST505B	Conduct sensory analysis	
PMLTEST509B	Perform immunohaematological tests <i>(Prerequisite: PMLTEST407A)</i>	

PMLTEST511B	Supervise earthworks inspection, sampling and testing operations <i>(Prerequisites: PMLTEST403B or PMLSAMP400B and PMLTEST406A)</i>		
PMLTEST512A	Apply electrophoretic techniques <i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		
PMLTEST513A	Apply routine chromatographic techniques <i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		
PMLTEST514A	Perform fire assay techniques <i>(Prerequisite: PMLSAMP401A)</i>		
PMLTEST515A	Design and supervise complex environmental field surveys <i>(Prerequisite: PMLTEST408A)</i>		
PMLTEST516A	Provide input to production trials <i>(Prerequisites: PMLTEST404A or PMLTEST405A or PMLTEST406A or PMLTEST411A)</i>		
PMLTEST517A	Perform tissue and cell culture techniques <i>(Prerequisites: PMLTEST412A and PMLTEST407A)</i>		
PMLTEST518A	Perform molecular biology tests and procedures <i>(Prerequisite: PMLTEST407A)</i>		
PMLTEST519A	Prepare animal and plant material for display <i>(Prerequisite: PMLTEST407A)</i>		
PMLTEST520A	Perform complex tests to measure engineering properties of materials <i>(Prerequisite: PMLTEST411A)</i>		
PMLTEST521A	Perform laboratory based ecological techniques <i>(Prerequisite: PMLTEST407A)</i>		
PMLTEST522A	Perform complex tests to measure chemical properties of materials <i>(Prerequisite: PMLTEST513A or PMLTEST524A)</i>		
PMLTEST523A	Apply complex instrumental techniques <i>(Prerequisite: PMLTEST513A or PMLTEST524A)</i>		
PMLTEST524A	Apply routine spectrometric techniques <i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		
PMLTEST525A	Apply routine electrometric techniques <i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		
PMLTEST526A	Perform food analysis <i>(Prerequisite: PMLTEST405A or PMLTEST407A)</i>		
PMLTEST700B	Contribute to the development of products and applications <i>(Prerequisite: PMLTEST603A)</i>		
PMLTEST701B	Troubleshoot equipment and production processes <i>(Prerequisite: PMLTEST603A)</i>		
PMLTEST702B	Contribute to the validation of test methods <i>(Prerequisite: PMLTEST603A)</i>		
PMLTEST703B	Develop or adapt analyses or procedures <i>(Prerequisite: PMLTEST603A)</i>		
PMLTEST704B	Integrate data acquisition and interfacing systems <i>(Prerequisite: PMLDATA501B)</i>		

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