

To be awarded a *Certificate IV in Laboratory Techniques*, competency must be achieved in a total of **sixteen (16)** units of competency consisting of:

Core units - all five (5) core units

PMLCOM300B Communicate with other people

PMLDATA400A Process and interpret data

PMLOHS400A Maintain laboratory/field workplace safety

PMLORG301A Plan and conduct laboratory/field work

PMLQUAL401B Apply quality system and continuous improvement processes

Elective units - eleven (11) elective units

The elective units must include:

- a minimum of five (5) units from the PML 400 series units, including at least one (1) of the PML 400 series units marked with '*' in the table of electives
- a maximum of four (4) units from the PML 300 series
- a maximum of three (3) units from the PML 500 series
- a maximum of three (3) relevant units from other endorsed Training Packages.

Core Units – all of these five (5) units				PMLMAIN502A Maintain instruments and equipment	ALL	PMLTEST523A Apply complex instrumental techniques	CHEM
PMLCOM300B	Communicate with other people	✓		PMLORG500B Schedule laboratory work for a small team	ALL	<i>(Prerequisite: PMLTEST513A or PMLTEST524A)</i>	
PMLDATA400A	Process and interpret data	✓		PMLQUAL500A Monitor the quality of test results and data	ALL	PMLTEST524A Apply routine spectrometric techniques	CHEM;
PMLOHS400A	Maintain laboratory/field workplace safety	✓		<i>(Prerequisite: PMLDATA400A)</i>		<i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>	BIO
PMLORG301A	Plan and conduct laboratory/field work	✓		PMLTEST501B Perform microbiological tests	BIO	PMLTEST525A Apply routine electrometric techniques	ALL
PMLQUAL401B	Apply quality system and continuous improvement processes	✓		<i>(Prerequisite: PMLTEST407A)</i>		<i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>	
Minimum of five (5) units from the PML400 series (at least one (1) marked *)				PMLTEST502B Perform haematological tests	BIO	PMLTEST526A Perform food analysis	FP
PMLCAL400A	Perform standard calibrations*	ALL		<i>(Prerequisite: PMLTEST407A)</i>		<i>(Prerequisite: PMLTEST405A and PMLTEST407A)</i>	
PMLMAIN400A	Maintain and control stocks	ALL		PMLTEST503B Perform histological tests	BIO	Maximum of four (4) units from the PML300 series	
PMLORG400A	Prepare practical science classes and demonstrations	ED		<i>(Prerequisite: PMLTEST310A)</i>		PMLMAIN300B Maintain the laboratory fit for purpose	ALL MA;
PMLQUAL400B	Contribute to the ongoing development of HACCP plans	FP		PMLTEST504B Perform chemical pathology tests	CHEM;	PMLOHS301B Work safely with instruments that emit ionising radiation	CMT
PMLSAMP400B	Obtain representative samples in accordance with sampling plan*	ALL		<i>(Prerequisite: PMLTEST407A)</i>	BIO	PMLQUAL300B Contribute to the achievement of quality objectives	ALL
PMLSAMP401A	Prepare mineral samples for analysis*	MA		PMLTEST505B Conduct sensory analysis	NC	PMLQUAL301B Apply critical control point requirements	FP
PMLTEST402B	Prepare, standardise and use solutions*	NC		PMLTEST509B Perform immuno-haematological tests	BIO	PMLSAMP302A Receive and prepare samples for testing	NC
PMLTEST403B	Assist with geotechnical site investigations*	CMT		<i>(Prerequisite: PMLTEST407A)</i>		PMLTEST300B Perform basic tests	ALL
PMLTEST404A	Perform chemical tests and procedures *	NC		PMLTEST511B Supervise earthworks inspection, sampling and testing operations	CMT	PMLTEST303B Prepare working solutions	NC BIO;
PMLTEST405A	Perform food tests *	FP		<i>(Prerequisites: PMLTEST403B or PMLSAMP400B plus PMLTEST406A)</i>		PMLTEST304B Prepare culture media	ED BIO;
	<i>(Prerequisite: PMLTEST308A)</i>			PMLTEST512A Apply electrophoretic techniques	BIO	PMLTEST305B Perform aseptic techniques	ED
PMLTEST406A	Perform physical tests *	ALL		<i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		PMLTEST306B Assist with fieldwork	ENV
PMLTEST407A	Perform biological procedures*	BIO		PMLTEST513A Apply routine chromatographic techniques	CHEM	PMLTEST307B Prepare trial batches for evaluation	ALL
	<i>(Prerequisites: PMLTEST305B and PMLTEST308A)</i>			<i>(Prerequisites: PMLTEST303B or PMLTEST402B and PMLTEST404A)</i>		PMLTEST308A Perform microscopic examination	NC
PMLTEST408A	Undertake environmental field based monitoring*	ENV		PMLTEST514A Perform fire assay techniques	MA	PMLTEST310A Perform histological techniques	BIO
PMLTEST409A	Capture and manage scientific images*	ALL		<i>(Prerequisite: PMLSAMP401A)</i>		Suggested competency applications	
PMLTEST410A	Undertake environmental field based remote-sensing monitoring*	ENV		PMLTEST515A Design and supervise complex environmental field surveys	ENV	All Labs	ALL
PMLTEST411A	Perform mechanical tests *	ALL		<i>(Prerequisite: PMLTEST408A)</i>		Construction Materials	CMT
PMLTEST412A	Prepare tissue and cell cultures*	BIO		PMLTEST516A Provide input to production trials	ALL	Chemistry Labs	CHEM
	<i>(Prerequisite: PMLTEST305B)</i>			<i>(Prerequisite: PMLTEST411A)</i>		Biology Labs	BIO
Maximum of three (3) units from the PML500 series				PMLTEST517A Perform tissue and cell culture techniques	BIO;	Education Labs	ED
PMLCOM500B	Provide information to customers	ALL		<i>(Prerequisites: PMLTEST412A and PMLTEST407A)</i>	ED	Mineral Assay	MA
PMLCAL500A	Perform non-standard calibrations	ML		PMLTEST518A Perform molecular biology tests and procedures	BIO	Environmental Labs	ENV
	<i>(Prerequisite: PMLCAL400A)</i>			<i>(Prerequisite: PMLTEST407A)</i>		Metrology Labs	ML
PMLCAL501A	Create or modify calibration procedures	ML		PMLTEST519A Prepare animal and plant material for display	BIO;	Food Processing	FP
	<i>(Prerequisite: PMLCAL500A)</i>			<i>(Prerequisite: PMLTEST407A)</i>	ED	Not Classified	NC
PMLCAL502A	Create or modify automated calibration procedures	ML		PMLTEST520A Perform complex tests to measure engineering properties of materials	CMT	Name.....	
	<i>(Prerequisite: PMLCAL501A)</i>			<i>(Prerequisite: PMLTEST411A)</i>		Return to: Alan Bartlett Consulting	
PMLDATA500B	Analyse data and report results	ALL		PMLTEST521A Perform laboratory based ecological techniques	ENV	Unit 2B/ 62 Secam Street	
	<i>(Prerequisite: PMLDATA400A)</i>			<i>(Prerequisite: PMLTEST407A)</i>		Mansfield 4122	
PMLDATA501B	Use laboratory application software	ALL		PMLTEST522A Perform complex tests to measure chemical properties of materials	CHEM	Fax 07 3219 4739	
PMLMAIN501B	Assist in the maintenance of reference material	ALL		<i>(Prerequisite: PMLTEST513A or PMLTEST524A)</i>		email: @abconsulting.edu.au	