

# Training package details



## MSL09 - Laboratory Operations Training Package

### Summary

Releases:

Release	Status	Release date	Approval process
2.3	Current	2013/03/11	Minor upgrade (Approval date: 2013/03/12)
2.2	Replaced	2012/12/19	Minor upgrade (Approval date: 2012/12/19)
2.1	Replaced	2012/12/17	Minor upgrade (Approval date: 2012/12/17)
2.0	Replaced	2012/12/10	Endorsement date: 2012/12/05
1.2	Replaced	2011/01/14	Endorsement date: 2009/12/04

Usage recommendation: **Superseded**

### Training Package Developer

Organisation: **Manufacturing Industry Skills Alliance**

Web address: <https://manufacturingalliance.org.au/>

### Mapping information

Mapping	Notes	Date
Is superseded by MSL - Laboratory Operations	Replaced by MSL	2016/03/01
Supersedes PML04 - Laboratory Operations Training Package (Superseded by MSL09)	Laboratory Operations Training Package.	2011/01/14

### Training package components

#### Qualifications

Code	Title	Usage	Release
MSL20109	Certificate II in Sampling and Measurement	Superseded	2
MSL30109	Certificate III in Laboratory Skills	Superseded	3
MSL40109	Certificate IV in Laboratory Techniques	Superseded	4
MSL50109	Diploma of Laboratory Technology	Superseded	5
MSL60109	Advanced Diploma of Laboratory Operations	Superseded	5
MSL70109	Graduate Certificate in Instrumental Analysis	Deleted	2

#### Skill sets

Code	Title	Release
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#### Units of competency

Code	Title	Usage	Release
MSL904001A	Perform standard calibrations	Superseded	1
MSL905001A	Perform non-standard calibrations	Superseded	1
MSL905002A	Create or modify calibration procedures	Superseded	1
MSL905003A	Create or modify automated calibration procedures	Superseded	1
MSL912001A	Work within a laboratory/field workplace (induction)	Superseded	1
MSL913001A	Communicate with other people	Superseded	1
MSL913002A	Plan and conduct laboratory/field work	Superseded	1
MSL914001A	Prepare practical science classes and demonstrations	Superseded	1

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Code	Title	Usage	Release
MSL915001A	Provide information to customers	Superseded	1
MSL915002A	Schedule laboratory work for a small team	Superseded	1
MSL916001A	Develop and maintain laboratory documentation	Superseded	1
MSL916002A	Manage and develop teams	Superseded	1
MSL916003A	Supervise laboratory operations in work/functional area	Superseded	1
MSL916004A	Maintain registration and statutory or legal compliance in work/functional area	Superseded	1
MSL916005A	Manage complex projects	Superseded	1
MSL922001A	Record and present data	Superseded	1
MSL924001A	Process and interpret data	Superseded	1
MSL924002A	Use laboratory application software	Superseded	1
MSL925001A	Analyse data and report results	Superseded	1
MSL925002A	Analyse measurements and estimate uncertainties	Superseded	1
MSL933001A	Maintain the laboratory/field workplace fit for purpose	Superseded	1
MSL933002A	Contribute to the achievement of quality objectives	Superseded	1
MSL933003A	Apply critical control point requirements	Superseded	1
MSL933004A	Perform calibration checks on equipment and assist with its maintenance	Superseded	1
MSL934001A	Contribute to the ongoing development of HACCP plans	Superseded	1
MSL934002A	Apply quality system and continuous improvement processes	Superseded	1
MSL934003A	Maintain and control stocks	Superseded	1
MSL935001A	Monitor the quality of test results and data	Superseded	1
MSL935002A	Assist in the maintenance of reference materials	Superseded	1
MSL935003A	Authorise the issue of test results	Superseded	1
MSL935004A	Maintain instruments and equipment	Superseded	1
MSL936001A	Maintain quality system and continuous improvement processes within work/functional area	Superseded	1
MSL936002A	Conduct an internal audit of the quality system	Superseded	1
MSL943001A	Work safely with instruments that emit ionising radiation	Superseded	1
MSL943002A	Participate in laboratory/field workplace safety	Superseded	1
MSL944001A	Maintain laboratory/field workplace safety	Superseded	1
MSL946001A	Implement and monitor OHS and environmental management systems	Superseded	1
MSL952001A	Collect routine site samples	Superseded	1
MSL952002A	Handle and transport samples or equipment	Superseded	1
MSL953001A	Receive and prepare samples for testing	Superseded	1
MSL953002A	Operate a robotic sample preparation system	Superseded	1
MSL954001A	Obtain representative samples in accordance with sampling plan	Superseded	1
MSL954002A	Prepare mineral samples for analysis	Superseded	1
MSL955001A	Supervise a robotic sample preparation system	Superseded	1
MSL963001A	Operate basic handblowing equipment	Superseded	1
MSL963002A	Repair glass apparatus using simple glassblowing equipment	Superseded	1
MSL965001A	Design and manufacture glass apparatus and glass systems	Superseded	1
MSL965002A	Perform glass coating, grinding and finishing operations	Superseded	1
MSL965003A	Construct, modify and maintain high vacuum systems	Superseded	1
MSL972001A	Conduct routine site measurements	Superseded	1

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Code	Title	Usage	Release
MSL973001A	Perform basic tests	Superseded	1
MSL973002A	Prepare working solutions	Superseded	1
MSL973003A	Prepare culture media	Superseded	1
MSL973004A	Perform aseptic techniques	Superseded	1
MSL973005A	Assist with fieldwork	Superseded	1
MSL973006A	Prepare trial batches for evaluation	Superseded	1
MSL973007A	Perform microscopic examination	Superseded	1
MSL973008A	Perform histological procedures	Superseded	1
MSL973009A	Conduct field-based acceptance tests for construction materials	Superseded	1
MSL973010A	Conduct laboratory-based acceptance tests for construction materials	Superseded	1
MSL973011A	Perform fire pouring techniques	Superseded	1
MSL973012A	Assist with geotechnical site investigations	Superseded	1
MSL974001A	Prepare, standardise and use solutions	Superseded	1
MSL974002A	Conduct geotechnical site investigations	Superseded	1
MSL974003A	Perform chemical tests and procedures	Superseded	1
MSL974004A	Perform food tests	Superseded	1
MSL974005A	Perform physical tests	Superseded	2
MSL974006A	Perform biological procedures	Superseded	1
MSL974007A	Undertake environmental field-based monitoring	Superseded	1
MSL974008A	Capture and manage scientific images	Superseded	1
MSL974009A	Undertake field-based, remote-sensing monitoring	Superseded	1
MSL974010A	Perform mechanical tests	Superseded	1
MSL974011A	Prepare tissue and cell cultures	Superseded	1
MSL974012A	Perform tests to determine the properties of construction materials	Superseded	1
MSL974013A	Monitor performance of structures	Superseded	1
MSL975001A	Perform microbiological tests	Superseded	1
MSL975002A	Perform haematological tests	Superseded	1
MSL975003A	Perform histological tests	Superseded	1
MSL975004A	Perform chemical pathology tests	Superseded	1
MSL975005A	Conduct sensory analysis	Superseded	1
MSL975006A	Perform immunohaematological tests	Superseded	1
MSL975007A	Supervise sampling, inspections and testing at construction sites	Superseded	1
MSL975008A	Apply electrophoretic techniques	Superseded	1
MSL975009A	Apply routine chromatographic techniques	Superseded	1
MSL975010A	Perform fire assay techniques	Superseded	1
MSL975011A	Design and supervise complex environmental field surveys	Superseded	1
MSL975012A	Provide input to production trials	Superseded	1
MSL975013A	Perform tissue and cell culture techniques	Superseded	1
MSL975014A	Perform molecular biology tests and procedures	Superseded	1
MSL975015A	Prepare animal and plant material for display	Superseded	1
MSL975016A	Perform complex tests to measure engineering properties of materials	Superseded	1
MSL975017A	Perform laboratory-based ecological techniques	Superseded	1

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Code		Title	Usage	Release
MSL975018A		Perform complex tests to measure chemical properties of materials	Superseded	1
MSL975019A		Apply complex instrumental techniques	Superseded	1
MSL975020A		Apply routine spectrometric techniques	Superseded	1
MSL975021A		Apply routine electrometric techniques	Superseded	1
MSL975022A		Perform food analyses	Superseded	1
MSL975023A		Supervise geotechnical site investigations	Superseded	1
MSL975024A		Locate record and collect forensic samples	Superseded	1
MSL975025A		Perform complex laboratory testing of forensic samples	Superseded	1
MSL975026A		Perform physical examination of forensic samples	Superseded	1
MSL976001A		Classify building sites	Superseded	1
MSL976002A		Prepare plans and quality assurance procedures for environmental field activities	Superseded	1
MSL976003A		Evaluate and select appropriate test methods and/or procedures	Superseded	1
MSL977001A		Contribute to the development of products and applications	Superseded	1
MSL977002A		Troubleshoot equipment and/or production processes	Superseded	1
MSL977003A		Contribute to validation of test methods	Superseded	1
MSL977004A		Develop or adapt analyses and procedures	Superseded	1
MSL977005A		Integrate data acquisition and interfacing systems	Deleted	1
MSL977006A		Apply specialised knowledge of gas chromatography techniques to analysis	Deleted	1
MSL977007A		Apply specialised knowledge of liquid chromatography techniques to analysis	Deleted	1
MSL977008A		Apply specialised knowledge of inductively coupled plasma spectroscopy to analysis	Deleted	1
MSL977009A		Apply advanced ultraviolet, visible and near infra red spectroscopic techniques to analysis	Deleted	1
MSL977010A		Apply advanced infra red spectroscopic techniques to analysis	Deleted	1
MSL977011A		Contribute to the selection, commissioning and maintenance of analytical instruments	Deleted	1

## Imported units of competency

Code		Title	Usage	Release	Belongs to training package
HLTPAT317C		Operate effectively within a pathology testing environment	Deleted	1	Health Training Package (HLT07)
HLTPAT419C		Perform Pathology Tests	Deleted	1	Health Training Package (HLT07)
MSAENV272B		Participate in environmentally sustainable work practices	Superseded	1	Manufacturing Training Package (MSA07)
MSAENV472B		Implement and monitor environmentally sustainable work practices	Superseded	1	Manufacturing Training Package (MSA07)
MSAENV672B		Develop workplace policy and procedures for environmental sustainability	Superseded	1	Manufacturing Training Package (MSA07)
TAEDEL301A		Provide work skill instruction	Superseded	1	Training and Education (TAE10)