



Australian Government

MSS50218 Diploma of Environmental Monitoring and Technology

Release 1

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Modification History

Release 1. Code updated, core units updated, qualification template updated, qualification description simplified. Supersedes and is equivalent to MSS50216 Diploma of Environmental Monitoring and Technology.

Qualification Description

This qualification specifies the competencies required to apply a range of methods and technologies to conduct environmental sampling, testing and monitoring in most industry sectors, and to assist environmental scientists, engineers and planners with site assessment, minimising environmental impacts of processes and remediation/rehabilitation of sites.

This qualification applies to environmental officers, environmental protection officers, environmental compliance officers, environmental technicians and similar personnel employed by enterprises and Commonwealth, state/territory and local governments. These personnel often work with environmental scientists, engineers, planners and community groups to manage and conserve natural systems and resources, minimise pollution, remediate/rehabilitate sites and trial practical strategies to protect and improve ecosystems. Their work often involves environmental monitoring and technology, internal auditing and continuous improvements to enhance compliance and minimise the environmental impacts of processes. Government employees may be more involved with external inspection and auditing of enterprises and negotiating appropriate responses to instances of non-compliance.

No licensing, legislative, regulatory 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 = 20

- 11 core units
- 9 elective units, consisting of:
 - a minimum of 5 units from Group A
 - the balance of units, to a maximum of 4, may be selected from:
 - Group A and B
 - up to 3 units from Group C

- up to **4** units from any endorsed Training Package or accredited course at Diploma level – these units must be relevant to the work outcome.

Note: Units with prerequisites are marked with an asterisk*. Prerequisite units must be counted in the total number of units required for achievement of the qualification. Refer to individual units for details.

All electives chosen must contribute to a valid, industry-supported vocational outcome.

Core units

Unit code	Unit title	Prerequisites
MSL943004	Participate in laboratory or field workplace safety	
MSL952001	Collect routine site samples	
MSL974022	Undertake environmental field-based monitoring	
MSMENV472	Implement and monitor environmentally sustainable work practices	
MSS024014	Implement environmental management plans and procedures	
MSS024015	Apply an understanding of environmental principles to a site	
MSS024016	Process and present environmental data	
MSS025017	Assist with assessing site environmental indicators	* MSS024015 Apply an understanding of environmental principles to a site
MSS025018	Assess the environmental risk and impact of a project activity or process	* MSS024015 Apply an understanding of environmental principles to a site
MSS025019	Report environmental data	* MSS024016 Process and present environmental data
MSS025020	Provide environmental information to customers	

Elective units**Group A**

Unit code	Unit title	Prerequisites
CPPWMT4001 A	Plan waste audits	
CPPWMT4002 A	Carry out waste audits	
MSL975042	Design and supervise complex environmental field surveys	* MSL974022 Undertake environmental field-based monitoring
MSL975045	Perform laboratory-based ecological techniques`	* MSL974021 Perform biological procedures
MSL975051	Supervise geotechnical site investigations	* MSL974018 Conduct geotechnical site investigations
MSS015011	Conduct a sustainability energy audit	
MSS015021	Measure and report carbon footprint of a product or product class	
MSS015028	Conduct a sustainable water use audit	
MSS015030	Conduct an emissions audit	
MSS015034	Inform and educate organisation and community representatives on sustainability issues	
MSS025005	Produce site maps	* MSS024017 Collect spatial and discrete environmental data
MSS025008	Monitor and evaluate noise	
MSS025009	Perform sampling and testing of air	
MSS025010	Assist with odour source assessment	
MSS025011	Assist with odour field assessment	

Unit code	Unit title	Prerequisites
MSS025012	Perform environmental microbiological tests	* MSS024022 Perform environmental biological techniques
MSS025013	Assist with assessing and monitoring wetlands	
MSS025014	Perform sampling and testing of contaminated sites	* MSS024020 Recognise common geological landforms and samples
MSS025016	Perform sampling and testing of stationary emissions	
MSS025021	Collect and evaluate groundwater data	
MSS025022	Perform sampling and testing of soils	* MSS024020 Recognise common geological landforms and samples
MSS025023	Plan and conduct environmental project work	
PSPRAD007	Monitor radiation	

Group B

Unit code	Unit title	Prerequisites
BSBWHS409	Assist with workplace monitoring processes	
MSL904002	Perform standard calibrations	
MSL924004	Use laboratory application software	
MSL954004	Obtain representative samples in accordance with sampling plan	
MSL974018	Conduct geotechnical site investigations	
MSL974019	Perform chemical tests and procedures	
MSL974021	Perform biological procedures	

Unit code	Unit title	Prerequisites
MSL974024	Undertake field-based, remote sensing monitoring	
MSS014013	Contribute to sustainability related audits	
MSS024013	Work and communicate effectively as an environmental technician	
MSS024017	Collect spatial and discrete environmental data	
MSS024018	Perform sampling and testing of water	
MSS024019	Collect and evaluate meteorological data	
MSS024020	Recognise common geological landforms and samples	
MSS024021	Assist with assessing and monitoring stormwater systems	
MSS024022	Perform environmental biological techniques	
MSS024023	Navigate in urban, regional and remote areas	
MSS024024	Undertake simple environmental project activities	
PSPRAD003	Perform basic radiation measurements	

Group C

Unit code	Unit title	Prerequisites
CUAPHI302	Capture photographic images	
HLTAID003	Provide first aid	
MSL934004	Maintain and calibrate instruments and equipment	
MSL973013	Perform basic tests	
MSL973014	Prepare working solutions	
MSL973016	Perform aseptic techniques	
MSL973019	Perform microscopic examination	
MSL973024	Perform site investigation activities	

Unit code	Unit title	Prerequisites
MSMENV272	Participate in environmentally sustainable work practices	
PUAWER009B	Participate as a member of a workplace emergency initial response team	
TAEDEL301	Provide work skill instruction	

Qualification Mapping Information

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Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>