



Australian Government

MSS40218 Certificate IV in Environmental Monitoring and Technology

Release 4

MSS40218 Certificate IV in Environmental Monitoring and Technology

Modification History

Release 4. Update to first aid elective.

Release 3. Six low use units removed from elective bank as determined at December 2020 AISC meeting in response to Skills Ministers' objectives. Equivalent.

Release 2. Three elective units updated. Supersedes and is equivalent to MSS40218 Certificate IV in Environmental Monitoring and Technology (Release 1).

Release 1. Code updated, core units updated, qualification template updated, qualification description simplified and changes to elective list. Supersedes and is equivalent to MSS40216 Certificate IV in Environmental Monitoring and Technology.

Qualification Description

This qualification specifies the competencies required to conduct environmental sampling, testing and monitoring in a variety of industry sectors, including:

- environmental monitoring, sampling and field testing (e.g. air, water, soil and rocks)
- geotechnical services
- natural resource management
- water supply and treatment, storm and wastewater management
- solid and hazardous waste management.

This qualification applies to environmental assistants, environmental technicians and similar personnel employed by enterprises and Commonwealth, state/territory/local governments in the sectors listed above. Many of these employees are engaged in the monitoring of environmental impacts at industrial sites. They operate monitoring equipment, collect samples and conduct tests both in the field and at site laboratories. Other employees may collect a range of field data relating to the suitability of land and water use and process and present this data using geographical information systems (GIS) software.

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 = 16

- 8 core units
- 8 elective units, consisting of.

- a minimum of **5** units from Group A
- the balance of units, to a maximum of **3**, may be selected from:
 - Group A, B or C
 - any endorsed Training Package or accredited course at Certificate IV 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
MSL943004	Participate in laboratory or field workplace safety
MSL952001	Collect routine site samples
MSL974022	Undertake environmental field-based monitoring
MSMENV272	Participate in environmentally sustainable work practices
MSS024013	Work and communicate effectively as an environmental technician
MSS024014	Implement environmental management plans and procedures
MSS024015	Apply an understanding of environmental principles to a site
MSS024016	Process and present environmental data

Elective units

Group A: Specialist elective units

Unit code	Unit title	Prerequisites
BSBWHS419	Contribute to implementing WHS monitoring processes	
MSL904002	Perform standard calibrations	
MSL924004	Use laboratory application software	
MSL954004	Obtain representative samples in accordance with sampling plan	

Unit code	Unit title	Prerequisites
MSL974018	Conduct geotechnical site investigations	
MSL974019	Perform chemical tests and procedures	
MSL974021	Perform biological procedures	
MSL974024	Undertake field-based, remote-sensing monitoring	
MSMENV472	Implement and monitor environmentally sustainable work practices	
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	
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 B

Unit code	Unit title	Prerequisites
CPPWMT4009	Conduct 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

Unit code	Unit title	Prerequisites
		site investigations
MSS015011	Conduct a sustainability energy audit	
MSS015021	Measure and report carbon footprint of a product or product class	
MSS015028	Conduct a sustainability water use audit	
MSS015030	Conduct an emissions audit	
MSS025005	Produce site maps	*MSS024017 Collect spatial and discrete environmental data
MSS025008	Monitor and evaluate noise	
MSS025009	Perform sampling and testing of air	
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
MSS025017	Assist with assessing site environmental indicators	*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	
MSS025021	Collect and evaluate groundwater data	
MSS025022	Perform sampling and testing of soils	*MSS024020 Recognise common geological landforms

Unit code	Unit title	Prerequisites
		and samples
MSS025023	Plan and conduct environmental project work	
PSPRAD007	Monitor radiation	

Group C

Unit code	Unit title	Prerequisites
CUAPHI302	Capture photographic images	
HLTAID011	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	
PUAFER009	Participate as a member of a facility emergency response team	
TAEDEL301	Provide work skill instruction	

Qualification Mapping Information

Release 3. Supersedes and is equivalent to MSS40218 Certificate IV in Environmental Monitoring and Technology (Release 2).

Release 2. Supersedes and is equivalent to MSS40218 Certificate IV in Environmental Monitoring and Technology (Release 1).

Release 1. Supersedes and is equivalent to MSS40216 Certificate IV in Environmental Monitoring and Technology.

Links

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

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