



Australian Government

MSS40216 Certificate IV in Environmental Monitoring and Technology

Release 1

MSS40216 Certificate IV in Environmental Monitoring and Technology

Modification History

Release 1. Supersedes and is equivalent to MSS40211 Certificate IV in Environmental Monitoring and Technology.

Qualification Description

The MSS40216 Certificate IV in Environmental Monitoring and Technology specifies the competencies required to conduct environmental sampling, testing and monitoring in a variety of industry sectors, such as:

- 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 or certification requirements apply to this qualification at the time of publication.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

To be awarded the MSS40216 Certificate IV in Environmental Monitoring and Technology, competency must be achieved in a total of **sixteen (16)** units of competency.

- **eight (8)** core units of competency
- **eight (8)** elective units of competency, as specified below.
 - a minimum of **five (5)** units from Group A
 - the balance of units, to a maximum of **three (3)** may be selected from:
 - Group A units, not previously selected
 - Group B and C units, listed below.

A maximum of **three (3)** Group B and C electives may be chosen from this Training Package, other endorsed Training Packages and accredited courses, where those units are relevant and available at Certificate IV. This could include relevant units available in AHC10 Agriculture, Horticulture and Conservation and Land Management Training Package.

Units listed under **core** are considered essential for all environmental assistants. The units listed as **electives** may only apply to some personnel according to the size and scope of the particular enterprise and industry sector.

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.

Core units of competency

Unit code	Unit title
MSS024001	Work and communicate effectively as an environmental technician
MSS024002	Implement environmental management plans and procedures
MSS024003	Apply an understanding of environmental principles to a site
MSS024004	Process and present environmental data
MSMENV272	Participate in environmentally sustainable work practices
MSL943002	Participate in laboratory/field workplace safety
MSL952001	Collect routine site samples

MSL974007	Undertake environmental field-based monitoring	
Elective units of competency		
Group A: Specialist elective units		
Unit code	Unit title	Prerequisites
MSS014006	Contribute to sustainability related audits	
MSS024005	Collect spatial and discrete environmental data	
MSS024006	Perform sampling and testing of water	
MSS024007	Collect and evaluate meteorological data	
MSS024008	Recognise common geological landforms and samples	
MSS024009	Assist with assessing and monitoring stormwater systems	
MSS024010	Perform environmental biological techniques	
MSS024011	Navigate in urban, regional and remote areas	
MSS024012	Undertake simple environmental project activities	
BSBWHS409	Use equipment to conduct workplace monitoring	
MSMENV472	Implement and monitor environmentally sustainable work practices	
MSL904001	Perform standard calibrations	
MSL924002	Use laboratory application software	
MSL954001	Obtain representative samples in accordance with sampling plan	
MSL974002	Conduct geotechnical site investigations	*
MSL974003	Perform chemical tests and procedures	
MSL974006	Perform biological procedures	*

MSL974009	Undertake field-based, remote-sensing monitoring	
PSPRAD003	Perform basic radiation measurements	
Group B		
Unit code	Unit title	Prerequisites
MSS015001	Measure and report carbon footprint	
MSS015010	Conduct a sustainability water use audit	
MSS015011	Conduct a sustainability energy audit	
MSS015012	Conduct an emissions audit	
MSS015018	Inform and advise organisation and community representatives on sustainability issues	
MSS025001	Assist with assessing site environmental indicators	*
MSS025002	Assess the environmental risk or impact of a project activity or process	*
MSS025003	Report environmental data	*
MSS025004	Provide environmental information to customers	
MSS025005	Produce site maps	*
MSS025006	Collect and evaluate groundwater data	
MSS025007	Perform sampling and testing of soils	*
MSS025008	Monitor and evaluate noise	
MSS025009	Perform sampling and testing of air	
MSS025010	Assist with odour source assessment	
MSS025011	Assist with odour field assessment	
MSS025012	Perform environmental microbiological tests	*
MSS025013	Assist with assessing and monitoring wetlands	

MSS025014	Perform sampling and testing of contaminated sites	*
MSS025015	Plan and conduct environmental project work	
MSS025016	Perform sampling and testing of stationary emissions	
MSL975011	Design and supervise complex environmental field surveys	*
MSL975017	Perform laboratory-based ecological techniques	*
MSL975023	Supervise geotechnical site investigations	*
CPPWMT4001A	Plan waste audit	
CPPWMT4002A	Carry out waste audit	
PSPRAD007	Monitor radiation	
Group C		
Unit code	Unit title	Prerequisites
CUAPHI302	Capture photographic images	
HLTAID003	Provide first aid	
MSL935004	Maintain instruments and equipment	
MSL973001	Perform basic tests	
MSL973002	Prepare working solutions	
MSL973004	Perform aseptic techniques	
MSL973007	Perform microscopic examination	
MSL973012	Assist with geotechnical site investigations	
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

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>