



Australian Government

MSS40222 Certificate IV in Environmental Monitoring and Technology

Release: 1

MSS40222 Certificate IV in Environmental Monitoring and Technology

Modification History

Release 1. Supersedes and is equivalent to MSS40218 Certificate IV in Environmental Monitoring and Technology. Qualification code changed. Description changed. Packaging rules changed. Elective banks changed. Unit codes and titles updated.

Qualification Description

This qualification specifies the competencies required to conduct environmental sampling, testing and monitoring in a variety of industries and contexts, including but not limited to:

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

This qualification applies to environmental assistants, environmental technicians and similar personnel typically employed by enterprises, service providers, non-government organisations or Commonwealth, state/territory/local governments.

Many of these employees are engaged in the monitoring of environmental impacts at industrial sites. They operate monitoring equipment, collect samples and conduct tests in the field and/or at site laboratories. Other employees may collect a range of field data relating to the suitability of land, levels of water use and similar factors and process and present these data using geographical information systems (GIS) software.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

Nil

Packaging Rules

Total number of units = **Sixteen (16)**

- **Eight (8)** core units
- **Eight (8)** elective units, consisting of:
 - 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 or B
 - Up to **two (2)** units from Group C or any endorsed Training Package qualification or accredited course at Certificate IV level.

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

Note: 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

Unit code	Unit title	Prerequisites
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	
MSS024025	Work and communicate effectively as an environmental technician	
MSS024026	Apply environmental management procedures	
MSS024027	Participate in environmental field work	
MSS024028	Process and present environmental data	

ELECTIVE UNITS

Group A

Unit code	Unit title	Prerequisites
CPPSSI4024	Source and assess spatial data	
MSL904002	Perform standard calibrations	
MSL924004	Use laboratory application software	
MSL954004	Obtain representative samples in accordance with sampling plan	
MSS024029	Collect spatial and discrete environmental data	
MSS024030	Perform sampling and testing of water	
MSS024031	Collect and evaluate meteorological data	

MSS024032	Document simple geological information for a site	
MSS024033	Identify environmentally significant organisms	
MSS024034	Navigate in urban, regional and remote areas	

Group B

Unit code	Unit title	Prerequisites
CPPWMT4009	Conduct waste audits	
BSBWHS419	Contribute to implementing WHS monitoring processes	
MSL974018	Conduct geotechnical site investigations	
MSL974019	Perform chemical tests and procedures	
MSL974021	Perform biological procedures	
MSMENV472	Implement and monitor environmentally sustainable work practices	
MSS015040	Conduct a sustainability energy audit	
MSS015042	Measure and report carbon footprint	
MSS015049	Conduct a sustainable water use audit	
MSS015050	Conduct an emissions audit	
MSS025024	Produce site maps	MSS024029 Collect spatial and discrete environmental data
MSS025025	Monitor and evaluate noise	
MSS025026	Perform sampling and testing of air	
MSS025028	Assist with assessing and monitoring wetlands	
MSS025029	Perform sampling and testing for site contamination	MSS024032 Document simple geological information for a site
MSS025030	Assist with assessing site environmental indicators	MSS024027 Participate in

		environmental field work
MSS025032	Report environmental data	MSS024028 Process and present environmental data
MSS025033	Provide environmental information to customers	
MSS025034	Collect and evaluate groundwater data	
MSS025035	Perform sampling and testing of soils	MSS024032 Document simple geological information for a site
MSS025036	Plan and conduct environmental project work	

Group C

Unit code	Unit title	Prerequisites
CUAPHI312	Capture photographic images	
HLTAID011	Provide first aid	
MSL973013	Perform basic tests	
MSL973016	Perform aseptic techniques	
MSL973019	Perform microscopic examination	
MSS014018	Apply circularity design thinking to all work streams	
PUAFER009	Participate as a member of a facility emergency response team	

Qualification Mapping Information

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Links

Companion Volume Implementation Guides are found in VETNet -

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

