



**Australian Government**

**Assessment Requirements for MSS024009  
Assist with assessing and monitoring  
stormwater systems**

**Release: 1**

# Assessment Requirements for MSS024009 Assist with assessing and monitoring stormwater systems

## Modification History

Release 1. Supersedes and is equivalent to MSS024009A Assist with assessing and monitoring stormwater systems

## Performance Evidence

Evidence of competence in this unit must satisfy all of the requirements of the elements and performance criteria, and include demonstration of:

- planning and safely conducting surveys/inspections/audits of at least two (2) stormwater systems and reporting current system conditions
- accurately interpreting relevant regulations, standards, guidelines, work instructions, workplace procedures, guidelines and manuals
- locating and evaluating stormwater system information and available environmental data sets
- planning and organising resources for efficient stormwater inspection, sampling and/or in-situ measurements
- communicating effectively with others, such as staff, members of the public, clients, council members and consultants
- making objective observations of stormwater systems based on clear criteria
- setting up, checking and operating sampling/measuring equipment in accordance with manuals and/or workplace procedures
- following specified sampling methods/procedures to ensure that samples are representative, viable and traceable
- following specified test methods to obtain reliable in-situ measurements
- accurately recording and/or storing field data
- assessing quality of field data, recognising anomalies, identifying and rectifying basic instrument faults
- seeking advice when issues/problems are beyond scope of competence/responsibility
- providing detailed descriptions of catchment characteristics, existing conditions, management values, environmental issues and possible causes
- completing all required documentation for surveys/inspections in the required format and timeframe
- transporting, cleaning, maintaining and storing field equipment in accordance with workplace procedures
- following procedures for working safely and minimising environmental impacts and waste.

## Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- terminology and principles of stormwater management
- basic design of stormwater transport systems, constructed wetlands and flood mitigation structures
- sources of stormwater system information
- specific legislation, policies and guidelines relevant to stormwater survey, inspection and audit activities
- fundamental principles of ecology and assessment of site environmental indicators
- environmental factors that impact on soils, water quality, population and diversity of flora and fauna
- specified procedures/methods and equipment for collecting soil, water and (micro) biological samples
- procedures and equipment for maintaining, storing and transporting samples/specimens to ensure their wellbeing, viability and integrity
- procedures and equipment for basic water flow and quality measurements
- calculation of simple flow rates, scientific quantities, estimated uncertainties and unit conversion factors
- workplace procedures for recording field data and reporting requirements
- protocols for the confidentiality and security of information and communicating with the community and media
- relevant hazards, health, safety and environment requirements.

## Assessment Conditions

- Judgement of competence must be based on holistic assessment of the evidence. Assessment methods must confirm consistency of performance over time, rather than a single assessment event.
- This unit of competency is to be assessed in the workplace, or a simulated workplace environment. A simulated workplace environment must reflect realistic operational workplace conditions that cover all aspects of workplace performance, including the environment, task skills, task management skills, contingency management skills and job role environment skills.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Knowledge evidence may be collected concurrently with performance evidence or through an independent process such as workbooks, written assessments or interviews (provided a record is kept in each case).
- Holistic assessment methods include:
  - review of the accuracy and completeness of field data and records prepared by the candidate
  - review of stormwater survey/inspection reports, including details of: catchment characteristics, existing conditions, management values, environmental issues and possible causes
  - feedback from supervisors that the candidate can plan and safely conduct stormwater surveys/inspections to assess current system conditions using available resources within the agreed timeframe
  - oral and/or written questions to assess the candidate's understanding of stormwater management, design of stormwater transport systems, constructed wetlands and flood mitigation structures, and stormwater assessment techniques.
- Access is required to all instruments, equipment, materials, workplace documentation, procedures, and specifications associated with this unit including, but not limited to:
  - access to natural and constructed drainage systems and combinations of these
  - relevant sampling equipment, field instruments and materials
  - documentation, including stormwater system information, environmental data sets, user manuals, workplace safety procedures and test/survey methods.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- The assessor must demonstrate both technical competency and currency.
- Technical competence can be demonstrated through:
  - relevant VET or other qualification/Statement of Attainment AND/OR
  - relevant workplace experience
- Currency can be demonstrated through:
  - performing the competency being assessed as part of current employment OR
  - having consulted with an organisation providing environmental monitoring, management or technology related services about performing the competency being assessed within the last twelve months.

## **Links**

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