



**Australian Government**

# **Assessment Requirements for MSL973012 Perform site investigation activities**

**Release: 1**

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## Modification History

Release 1. Supersedes and is equivalent to MSL973012A Assist with geotechnical site investigations

## Performance Evidence

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

- preparing for site investigations and safely performing relevant site sampling, testing and excavation/reinstatement tasks on at least three (3) occasions
- following instructions and work as part of a small team
- interpreting maps, site plans and drawings
- recognising site services at sampling and testing sites
- recognising site features and soil, rock and fill materials
- taking representative samples, handling and transporting samples
- performing basic in situ tests and site measurements (e.g. location and depth)
- minimising environmental impacts and generation of waste while performing tasks
- communicating site problems to appropriate personnel and seeking timely advice

maintaining accurate and complete records

setting up, checking, using, cleaning and maintaining tools and equipment

collecting, storing and disposing of waste in accordance with workplace procedures.

## Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- the basic concepts, purposes and principles of site investigation activities conducted as part of job role
- site safety and management rules, including safety induction, risk assessments, controlled entry/exit to site and required personal protective equipment (PPE)
- simple methods for identifying and classifying materials
- basic engineering properties of soil and rock materials and their use in engineering and construction
- basic principles of representative sampling and testing
- basic in situ testing methods relevant to job role
- relevant site hazards, work health and safety (WHS) and environment requirements.

## Assessment Conditions

- Judgment 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).
- This unit of competency may be assessed with:
  - MSL952002 Handle and transport samples or equipment
  - MSL952001 Collect routine site samples
  - MSL973001 Perform basic tests
- Holistic assessment methods include:
  - review of the candidate's work outputs, such as completeness of preparation for investigations, quality of samples and test data obtained
  - feedback from peers and supervisors about the candidate's ability to work safely, follow procedures and instructions accurately, care for equipment and produce quality outputs within the expected timeframe
  - observation of the candidate performing site sampling, testing and excavation/reinstatement tasks
  - examples of workplace documentation completed by the candidate
  - oral or written questioning about safety procedures, sampling and testing procedures, and the recommended responses for common site problems.
- Access is required to instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:
  - access to geotechnical and/or construction sites and relevant site documentation
  - workplace procedures, sampling plans, test methods and equipment manuals
  - consumables; hand tools; field sampling and test equipment, such as dynamic cone penetration (DCP) testing, standard penetration testing (SPT), shear vane, pocket penetrometer and water level indicator
  - excavation equipment, such as hand and power augers, powered excavators, generators and jack hammers
  - safety clothing and equipment, including helmets, boots, gloves, earmuffs and glasses.
- 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 competence 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 a laboratory about performing the competency being assessed within the last twelve months.

## **Links**

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