



Australian Government

MSL972002 Take routine site measurements

Release: 1

MSL972002 Take routine site measurements

Modification History

Release 1. Supersedes and is equivalent to MSL972001 Conduct routine site measurements. Minor Title change. Minor changes to Performance Criteria. Range of Conditions removed. Performance Evidence simplified and duplication with Performance Criteria removed. Item about errors and atypical data moved to Knowledge Evidence. Other aspects of Knowledge Evidence changed for clarity.

Application

This unit of competency describes the skills and knowledge to take direct measurements on site using workplace procedures. Measurements will be straightforward and involve a minimal number of steps, take a short time, have easily recognised control limits and use equipment calibrated by others. Measurements include the use of instruments and/or kits.

This unit of competency is applicable to production operators, field assistants and laboratory assistants in manufacturing, construction materials and environmental services industry sectors.

No licensing or certification requirements exist at the time of publication. However, regulations and/or external accreditation requirements for laboratory operations exist, so local requirements should be checked. Relevant legislation, industry standards and codes of practice within Australia must also be applied.

Competency Field

Testing

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for measurements	1.1 Confirm the purpose, priority and nature of measurements from work documentation 1.2 Liaise with relevant personnel to arrange location access and all necessary clearances or permits 1.3 Identify location hazards and review workplace safety procedures 1.4 Assemble measuring and safety equipment and check they are fit for purpose 1.5 Check all items against inventory and stow them to ensure safe transport

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.6 Arrange any required transport for location access
2. Take measurements	2.1 Locate and access measurement points in accordance with security and workplace procedures 2.2 Seek advice if the required measurements cannot be made or if procedures require modification 2.3 Operate measuring equipment in accordance with workplace procedures and manufacturer instructions 2.4 Take sufficient readings to ensure reliable data 2.5 Record data with required legibility, accuracy, precision and units 2.6 Record environmental conditions and any other observations that may impact on data quality 2.7 Recognise obvious errors and atypical data and take appropriate corrective action 2.8 Follow procedures for location security when sampling is completed
3. Finalise measurement process	3.1 Follow workplace procedures for any required cleaning and decontamination of equipment and vehicle 3.2 Check all equipment and materials against inventory and stow for safe transport 3.3 Liaise with relevant personnel to restore normal production and/or services as necessary 3.4 Report all measurements in accordance with workplace procedures 3.5 Check and document serviceability of equipment before storage
4. Maintain a safe work environment	4.1 Use established work practices and personal protective equipment (PPE) to ensure personal safety and that of others 4.2 Minimise environmental impacts of measurements and generation of waste 4.3 Dispose of waste in accordance with workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to MSL972001 Conduct routine site measurements.

Links

MSL Laboratory Operations Companion Volume Implementation Guide is available from VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c63a03b-4a6b-4ae5-9560-1e3c5f462baa>

Assessment Requirements for MSL972002 Take routine site measurements

Modification History

Release 1. Supersedes and is equivalent to MSL972001 Conduct routine site measurements. Minor Title change. Minor changes to Performance Criteria. Range of Conditions removed. Performance Evidence simplified and duplication with Performance Criteria removed. Item about errors and atypical data moved to Knowledge Evidence. Other aspects of Knowledge Evidence changed for clarity.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- safely taken at least 3 direct measurements.
-

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- basic measurement concepts, including repeatability, precision, accuracy and significant figures
 - international system of units (SI)
- purpose of measurements performed as part of job role and the principles of operation for the equipment/instruments used
- how to recognise obvious errors or atypical data and types of corrective actions, including:
 - logical check of equipment set-up
 - check of calibration, zero error and drift for basic instruments
 - careful re-reading of procedures
 - repeating measurements
 - seeking advice
- workplace procedures for:
 - the maintenance, storage and transport of measurement equipment
 - waste management
 - handling of hazardous materials
 - recording measurements
 - recognising and reporting unexpected or unusual results.
-

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - sampling locations
 - measuring equipment
 - workplace procedures for equipment and taking measurements.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

MSL Laboratory Operations Companion Volume Implementation Guide is available from VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c63a03b-4a6b-4ae5-9560-1e3c5f462baa>