



Australian Government

Assessment Requirements for MSL972001

Conduct routine site measurements

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSL972001A Conduct routine site measurements

Performance Evidence

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

- safely making a variety of direct measurements at different sites on at least three (3) occasions
- liaising with others to access sites and perform measurements efficiently
- correctly locating measurement points and services at sites
- making measurements to minimise environmental impact and/or disruption to normal site operations
- safely operating instruments and test kits in accordance with workplace procedures and manufacturer instructions
- reading scales/displays accurately and taking sufficient measurements to ensure reliable data
- recording data that is legible, free of errors and has appropriate accuracy, precision and units
- recognising obvious errors/atypical data and using 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
- maintaining confidentiality and reporting problems and incidents in accordance with procedures
- following workplace procedures for safely conducting site measurements; recording and reporting data and any relevant legal traceability requirements; and maintenance, storage and transport of measurement equipment
- recognising own limitations and seeking timely advice.

Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- concepts of metrology, including:
 - all measurements are estimates
 - measurements belong to a population of measurements of the measured parameters

- precision, accuracy and significant figures
- sources of error, uncertainty and repeatability
- traceability
- international system of units (SI)
- purpose of measurements performed as part of job role and the principles of operation for the equipment/instruments used
- sources of uncertainty in measurement and methods for control
- workplace safety procedures associated with measurements undertaken as part of job role; the maintenance, storage and transport of measurement equipment; waste management and handling of dangerous goods
- workplace and/or legal traceability requirements
- procedures for recognising and reporting of unexpected or unusual results
- relevant hazards, work health safety (WHS) 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).
- This unit of competency may be assessed with:
 - MSL952001 Collect routine site samples
- Holistic assessment methods include:
 - review of the quality of site measurement data and documentation provided by the candidate
 - observation of the candidate performing a range of site measurements
 - feedback from supervisors and clients that relevant procedures were followed and that measurements were conducted in an efficient manner
 - oral/written questioning about workplace procedures for conducting site measurements; maintenance, storage and transport of measurement equipment; waste management and handling of dangerous goods.
- Access is required to instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:

- a variety of sites and relevant measuring equipment
- safe operating procedures for equipment, site measurement procedures and documented safe work practices.
- 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

Companion Volume implementation guides are found in VETNet -

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