



Australian Government

MSL935008 Monitor the quality of test results and data

Release: 1

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Modification History

Release 1. Supersedes and is not equivalent to MSL935007 Monitor the quality of test results and data. Prerequisite unit added. Minor changes to Performance Criteria and Performance Evidence for clarity. Items removed from, and added to, Knowledge Evidence. Inappropriate resource requirement removed from Assessment Conditions.

Application

This unit of competency describes the skills and knowledge to analyse a series of test results and data to detect potential or actual non-conformances, assess their significance and recommend preventative or corrective actions. The unit assumes personnel will have access to workplace quality assurance procedures based on Australian and/or international standards. This unit of competency does not cover the adaptation or development of test methods or procedures.

This unit of competency applies to technical officers, technical specialists and laboratory supervisors in all 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.

Pre-requisite Unit

MSL924005 Process and interpret data.

MSL934009 Apply quality system and continuous improvement processes

Competency Field

Quality

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. Verify accuracy of data and technical records	1.1 Retrieve and collate all relevant data files and technical records for the specified time interval, tests, product range or project 1.2 Inspect data records to check the integrity of data entry, alterations, transfers and calculations

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Confirm that technical records contain sufficient information to provide an audit trail for the tests involved
2. Assess the quality of data and results	2.1 Use charts and tables to determine whether data and results are within specified limits 2.2 Analyse data trends and results for blanks, duplicates and/or check samples to detect systematic uncertainties 2.3 Use statistical tests and workplace procedures to check data acceptability 2.4 Check that estimations of uncertainties are reasonable and consistent with test method, client or product specification requirements 2.5 Identify results that cannot be reconciled with technical records and/or expected outcomes
3. Identify potential causes for unacceptable results	3.1 Review user checks and calibration performance records to confirm that equipment or instrument meets test specifications 3.2 Check for obvious sources of interferences that may have occurred during measurements 3.3 Review technical records to identify human or environmental factors that could affect reliability of results 3.4 Review records of sample collection and preparation to confirm chain of custody requirements and adherence to sampling procedures 3.5 Check that any documented deviations from sampling procedures and/or test methods were technically justified and authorised 3.6 Check the condition of sampling equipment and/or stored samples if available and appropriate
4. Report findings to relevant personnel	4.1 Summarise the quality of test results and data in required workplace formats 4.2 Record potential sources or instances of non-conforming work and assess their significance for current and previously completed work 4.3 Recommend appropriate preventative and/or corrective actions to improve work activities or rectify issues 4.4 Prepare reports in a format and style consistent with their intended use and workplace guidelines

Foundation Skills

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

- Numeracy skills to apply statistical tests to estimate uncertainties and determine data acceptability.
- Problem-solving skills, such as root cause analysis, to identify and rectify deviations in results.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

No equivalent unit.

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>