



**Australian Government**

# **Assessment Requirements for MSL935004 Maintain instruments and equipment**

**Release: 1**

# Assessment Requirements for MSL935004 Maintain instruments and equipment

## Modification History

Release 1. Supersedes and is equivalent to MSL935004A Maintain instruments and equipment

## Performance Evidence

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

- checking the serviceability of at least three (3) laboratory/field instruments or items of equipment and performing routine maintenance, such as cleaning, replacement of consumables and minor components, and correct storage
- conducting calibration status/qualification checks for at least two (2) instruments or equipment
- obtaining instrument/equipment readings with the required accuracy and precision
- following workplace data recording and reporting procedures
- determining whether an item of equipment/instrument is in correct working order
- recognising the need for specialist servicing and/or repairs
- performing basic troubleshooting to locate and rectify basic faults
- performing basic repairs consistent with warranty and service agreements
- following all relevant work health and safety (WHS) requirements.

## Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- role and importance of regular calibration checks and maintenance of instruments and equipment, and maintenance schedules and procedures
- function of key components of the instrument or equipment operating principles, details of the pre-use, calibration and safety checks, and operating procedures for the items used
- sources of uncertainty in instrument or equipment operation and their control
- common sources of faults in the instruments or equipment used and details of their repair
- basic equipment cleaning, maintenance and storage procedures for items of equipment used
- workplace procedures for recording data and reporting results, communicating with service agents and suppliers and ordering stocks
- relevant hazards, WHS and environmental management, and control measures.

## 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:
  - relevant MSL974000 series units of competency
  - relevant MSL975000 series units of competency
- Holistic assessment methods include:
  - review of maintenance records and instrument/equipment logbooks completed by the candidate
  - observation of the candidate safely performing serviceability and calibration/qualification checks and routine maintenance
  - feedback from peers and supervisors about the ability of the candidate to maintain instruments and equipment
  - oral or written questioning to check required knowledge of workplace procedures for the safe use, calibration/qualification checks, cleaning, maintenance and storage of the instruments or items of equipment used.
- Access is required to all instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:
  - standard laboratory equipped with appropriate instruments and equipment, reference materials, consumables; cleaning, decontamination and/or disinfection agents and equipment; and personal protective equipment (PPE)
  - workplace procedures, calibration and maintenance schedules, equipment manuals, supplier catalogues and information/records management system.
- 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/>