



**Australian Government**

# **Assessment Requirements for MSL955001 Supervise a robotic sample preparation system**

**Release: 1**

# Assessment Requirements for MSL955001 Supervise a robotic sample preparation system

## Modification History

Release 1. Supersedes and is equivalent to MSL955001A Supervise a robotic sample preparation system

## Performance Evidence

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

- ensuring that the robotic sample preparation system operates efficiently and safely to produce outputs that meet the workplace and/or client quality requirements on at least three (3) occasions
- prioritising and planning job sequences
- explaining system operation and safe work procedures to operators
- working closely with system operators to ensure safety and achievement of production targets and quality standards
- planning, monitoring and adjusting work flow to manage competing client/production priorities for a shift
- recognising and rectifying problems caused by prior sample handling and preparation
- recognising, assessing and controlling hazards associated with samples and the system
- interpreting system error codes and taking appropriate corrective actions
- troubleshooting and solving common system problems within scope of responsibility
- interpreting, applying and improving workplace procedures for operating robotic system
- communicating clearly with clients, operators, maintenance/IT technicians and production managers
- maintaining system records
- working safely at all times.

## Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- procedures for sorting, receiving and analysing samples
- geological and chemical characteristics of mineral ores handled in job role
- sample preparation methods/processes for a the range of mineral ore samples handled in job role
- purpose and key steps in routine downstream analytical tests for samples handled in job role
- procedures for preventing contamination
- procedures for ensuring security, integrity and traceability of samples
- procedures for ensuring confidentiality of results
- function of key components and operating procedures for robotic sample preparation system
- function of key components of laboratory information management system (LIMS), system software and layout of screens
- common system problems and error codes for system errors, recommended preventative/corrective actions and breakdown procedures
- troubleshooting and problem-solving techniques relevant to job role
- importance of good customer relations, throughput, costs and minimising rework
- relevant hazards, control measures, and work health and 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:
  - MSL944001 Maintain laboratory or field workplace safety
  - MSL977002 Troubleshoot equipment and/or production processes
- Holistic assessment methods include:
  - review of production logs, quality control, performance and analytical results traceable to samples prepared on shifts that were supervised by the candidate
  - review of system records prepared by the candidate
  - feedback from operators, service/maintenance technicians, clients and laboratory/production managers
  - oral or written questions to assess knowledge of robotic sample preparation procedures, common system problems and their specified corrective actions.
- Access is required to instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:
  - a robotic sample preparation system
  - mineral ore samples, sample preparation methods, equipment and reagents
  - client requests/documentation, such as client profile; sample identification and sample receipts; required preparation methods, storage and analyses; and service charges
  - safety equipment
  - workplace procedures.
- 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/>