



Australian Government

Assessment Requirements for MSL914001

Prepare practical science classes and demonstrations

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSL914001A Prepare practical science classes and demonstrations

Performance Evidence

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

- managing the day-to-day running of science teaching laboratories and preparing practical experiments, demonstrations and field trips
- working with teaching staff and students to assess risks, develop and implement controls and monitor their effectiveness
- working with teaching staff and students to ensure all practical activities are performed safely (through demonstrations and monitoring of practical activities)
- developing operational plans, work schedules, job cards and budgets
- clarifying and designing practical activities and assessing resource needs
- preparing laboratory experiments and demonstrations on time with the correct materials and equipment
- managing contingencies and resources within level of responsibility
- maintaining the laboratory fit for purpose
- obtaining stocks of materials and equipment using workplace procedures
- organising quotes and bookings using workplace procedures
- working effectively with students and staff who may have diverse work styles, cultures and perspectives.

Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- principles of risk assessment, risk management and hierarchy of control
- principles of small scale budgeting, operational planning and efficient resource use
- scientific terminology and technical details of sampling, testing, equipment and instrumentation used in the education program's practical activities
- relevant legislation, regulations and codes governing practical activities
- workplace procedures for the purchase, handling, storage and transport of materials and equipment
- relevant 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
 - relevant MSL974000 series of units of competency
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- Holistic assessment methods include:
 - review of operational plans, schedules and budgets prepared by the candidate
 - review of risk assessments and control strategies prepared by the candidate
 - review of job cards detailing completed tasks by the candidate
 - feedback from students, teaching staff, suppliers and supervisor
 - observation of the candidate assisting teaching staff and students during practical activities
 - written or oral questions to assess the candidate's knowledge of relevant workplace procedures, technical details of practical activities and his/her ability to handle a range of contingencies.
- Access is required to instruments, equipment, materials, workplace documentation, procedures and specifications associated with this unit, including, but not limited to:
 - laboratory/field work environment, equipment and materials
 - personal protective equipment (PPE) and safety equipment
 - WHS management system, policies and 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 competency 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/>