



Australian Government

MSL974021 Perform biological procedures

Release: 1

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Modification History

Release	Comments
Release 1	<p>This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>.</p> <p>Supersedes and equivalent to MSL974006 Perform biological procedures. Changes to elements and performance criteria. Range of conditions removed. Assessment requirements amended.</p>

Application

This unit of competency describes the skills and knowledge to interpret work requirements, prepare samples, and perform routine biological procedures. These procedures may involve several steps and are used to classify organisms and biologically active compounds by analysing their biological and/or chemical characteristics. This unit includes interpretation of results and troubleshooting obvious departures from standard procedures.

This unit of competency applies to technical assistants working in the biomedical, environmental, biotechnology and education 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

Nil

Competency Field

Testing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Interpret and schedule work requirements	1.1	Review work request to identify samples, required procedures and materials/equipment/instruments involved
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Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.2 Identify hazards and workplace control measures associated with the sample, preparation methods, reagents and/or equipment
	1.3 Plan parallel work sequences to optimise throughput of multiple sets of samples
2 Receive and prepare biological samples	2.1 Log samples using standard operating procedures (SOPs)
	2.2 Record sample description, compare with specification and note and report discrepancies
	2.3 Prepare samples in accordance with testing requirements
3 Perform techniques that assist in the classification of organisms	3.1 Identify characteristics used to classify organisms
	3.2 Use dichotomous keys to identify organisms
4 Perform biological procedures	4.1 Set up and use equipment and reagents in accordance with the method
	4.2 Perform techniques in accordance with the standard operating procedures
5 Maintain a safe work environment	5.1 Use established safe work practices and personal protective equipment (PPE) to ensure personal safety and that of other laboratory personnel
	5.2 Minimise the generation of waste
	5.3 Safely dispose of biohazardous wastes
	5.4 Clean, care for and store equipment and reagents as required

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 6 | Maintain laboratory records | 6.1 | Record entries on report forms or into a laboratory information management system, accurately calculating, recording or transcribing data as required |
| | | 6.2 | Ensure traceability of sample from receipt to reporting of results |

Foundation Skills

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

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Equivalent to MSL974006 Perform biological procedures, Release 1.

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>