



Australian Government

MSL973016 Perform aseptic techniques

Release: 1

MSL973016 Perform aseptic techniques

Modification History

Release	Comments
Release 1	This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>. Supersedes and equivalent to MSL973004 Perform aseptic techniques. Changes to performance criteria. Range of conditions removed. Assessment requirements amended.

Application

This unit of competency describes the skills and knowledge to perform aseptic techniques to maintain the integrity of both the sample source and the sample. It applies to sampling techniques in tissue culture and to generic microbiological procedures.

This unit of competency applies to laboratory assistants and technicians working in the field or laboratory in the biomedical, biological, food processing and environmental 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 Prepare for aseptic sampling or transfer

- 1.1 Check the sampling procedure conforms with the required sampling plan
- 1.2 Use specified personal protective equipment (PPE)

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Prepare the work area for safe and effective sample transfer 1.4 Select equipment and materials specified by the procedure 1.5 Organise equipment to minimise contamination during manipulations 1.6 Label containers for clear identification 1.7 Record details in relevant log or database 1.8 Macroscopically assess media and/or reagents to confirm sterility before use
2 Transfer materials aseptically	2.1 Protect the integrity of the sample source 2.2 Sterilise inoculating loops and/or pipette where used to prevent contamination 2.3 Perform transfer while minimising opportunities for contamination and cross-infection 2.4 Protect the integrity of the sample source and destination after transfer, and before sealing the transport or culture vessel 2.5 Re-sterilise inoculating loops, minimising the generation of aerosols as required 2.6 Perform quality control checks to confirm aseptic transfer was successful 2.7 Label transport or culture vessels for clear identification
3 Maintain work area and equipment to prevent cross-infection and contamination	3.1 Place disposable and reusable items into relevant receptacles 3.2 Clean and disinfect work area and equipment after use 3.3 Transport disposable and reusable contaminated materials to relevant areas for disinfection, sterilisation and cleaning or disposal 3.4 Follow personal hygiene procedures

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 MSL973004 Perform aseptic techniques, 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>