



Australian Government

Assessment Requirements for MSL974023

Capture and manage scientific images

Release: 1

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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 MSL974008 Capture and manage scientific images. Range of conditions removed. Assessment requirements amended.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- captured and delivered accurate and reproducible images of at least 5 scientific subjects using a scientific approach and workplace procedures/protocols to ensure the integrity of the images.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace policies and procedures for capturing and managing scientific images
- repercussions of manipulation of images and differences between adjustment and manipulation
- scientific approach and protocols to ensure integrity of images
- scientific imaging techniques:
 - photographic (digital, transparencies and prints)
 - video
 - other non-visible light sources, such as ultraviolet (UV) light, fluorescence and phosphorescence
 - direct transformation from images to data, such as reading of DNA sequencing gels
 - X-ray and auto-radiations
 - micrographs and electron micrographs
- purpose of the image:
 - publication as a thesis
 - presentation on the web
 - temporal serial recording of changes over time

- display as a poster, diorama, print or projection
- preview, snapshot or proof of an image for production at a later stage
- records of data for inclusion in databases
- use in forensic investigation or court proceedings
- veracity of different types of storage media
- ethical and legal work practices:
 - industry codes of practice, contracts, permits, intellectual property (IP), crediting, plagiarism and copyright
 - moral rights, model release, etiquette, decorum and sensitivity towards the subject, and confidentiality
- production of images:
 - sending images for processing
 - processing the images
 - use of commercial software
- storage of records:
 - the brief, technical specifications and images
 - file management (back-ups, data retrieval and storage)
 - paper-based, electronic or digital
- awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and work health and safety (WHS) requirements specific to the work task.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - facilities, equipment (e.g. lighting, backdrops, camera systems and accessories) and materials required for image capture
 - workplace procedures, equipment manuals, industry catalogues and journals
 - job requirements, specifications and/or briefs, and records.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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>