



Australian Government

Assessment Requirements for MSL974023

Capture and manage scientific images

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 MSL974008 Capture and manage scientific images. Range of conditions removed. Assessment requirements amended.</p>

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>