



Australian Government

Assessment Requirements for MSL943003

Work safely with instruments that emit ionising radiation

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 MSL943001 Work safely with instruments that emit ionising radiation. 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:

- safely handled, stored and transported at least 1 instrument that emits ionising radiation in accordance with established safe work practices, laboratory procedures and licensing requirements
- safely checked the operation and calibration status of at least 1 instrument that emits ionising radiation and then operating it to conduct a radiation survey.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- radiation concepts and principles, including nature of radiation; different types of radiation, their characteristics, sources and shielding methods; radiation intensity; physiological effects of ionising radiation; external radiation protection and practical methods of minimising radiation exposure
- methods of measuring and detecting ionising radiation
- function of key components, pre-use and calibration status checks and safe operating procedures for the instrument used
- work health and safety (WHS) and emergency procedures for safe handling of radiation sources and working with the instrument used
- critical elements of radiation safety
- instruments that emit ionising radiation
- atypical conditions and problems that present when working with instruments that emit ionising radiation

- Australian and international standards for the competence of testing and calibration laboratories; and safety, such as AS 2243.4-1998 Safety in laboratories - Ionising radiations
- specific industry codes and guidelines:
 - Australian Dangerous Goods Code
 - Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) Codes of Practice
- registration/licensing and/or National Association of Testing Authorities (NATA) accreditation requirements, and radiation licensing requirements
- awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and 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:
 - instruments that emit ionising radiation and radiation monitors/dosimeters and associated equipment, such as battery chargers
 - documentation, including user manuals, workplace safety procedures and test/survey methods
 - radiation warning signs and barriers
 - storage areas for nuclear sources.

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>