



Australian Government

Assessment Requirements for PSPRAD011 Work safely with radiation-unsealed source equipment

Release: 1

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Modification History

Release	Comments
1	These Assessment Requirements were released in PSP Public Sector Training Package release 1.0 and meet the Standards for Training Packages.

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- using relevant information sources to locate and interpret information about unsealed radioactive source and radioactive substance
- conducting pre-use checks, for radiation instruments and monitoring equipment used in task
- interpreting manuals for unsealed radioactive source and radioactive substance and monitoring equipment used in job role
- processing data and verifying results
- regularly assessing and reassessing risks and hazards and taking appropriate protective measures
- handling unsealed radiation sources/substances and monitoring equipment used in task to obtain reliable data
- using and caring for personal protective equipment (PPE) and personal monitoring equipment required in job role

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- ionising radiation, radioactivity, radioactive material, contamination, contamination controls, concentration, shielding, half-life, radionuclide, and safe distance
- types and properties of ionising radiation, sources and shielding methods
- definitions of radiation quantities, including exposure, dose, effective dose, dose rate, dose equivalent, and dose limits
- exposure pathways and protective measures

- signs and symptoms of radiation exposure, radiation health effects, and deterministic and stochastic effects
- international system (SI) of units for radiation quantities
- function of key components, set-up checks and operating principles of monitoring equipment used in task
- guidelines and safety procedures for working with radiation sources, based on principles of time, distance and shielding
- principles of optimising work practices to minimise exposure
- health, safety and workplace emergency response procedures, safe working rules, personal hygiene requirements and safe operating procedures for equipment relevant to job role
- PPE and monitoring equipment relevant to job role and task
- principles and techniques for decontamination of personnel in the field
- techniques for assessing radiation hazards likely to be encountered in task
- techniques for conducting monitoring relevant to task
- techniques for control, containment and/or confinement of unsealed radiation sources/substances consistent with capabilities and required in task

Assessment Conditions

This unit contains no specific industry-mandated assessment conditions. Guidance on suggested and recommended conditions and methods can be found in the Implementation Guide.

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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bebbece7-ff48-4d2c-8876-405679019623>

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