



Australian Government

Assessment Requirements for PSPRAD003

Perform basic radiation measurements

Release: 1

Assessment Requirements for PSPRAD003 Perform basic radiation measurements

Modification History

Release	Comments
1	<p>These Assessment Requirements were released in PSP Public Sector Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none">Assessment Requirements created drawing upon specified assessment information from superseded unit

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.

- applying manufacturer's recommended procedures for using and caring for radiation measuring instruments
- applying safe working rules and those parts of the organisation's radiation management plan relevant to job role
- conducting pre-use checks and simple maintenance for radiation measuring instruments and task-related equipment used in job role
- reading scales and displays accurately for a wide range of values
- regularly assessing and reassessing hazards and taking appropriate protective measures
- seeking advice and further directions when faced with unforeseen circumstances or situations that may require decisions or response actions beyond technical competence
- using and caring for PPE used 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, activity, dose, contamination, contamination controls, shielding, half-life, radionuclide, and safe distance
- types and properties of ionising radiation, sources and shielding methods
- radiation measuring instruments used in job role, including at least one of:
 - air proportional

- gas proportional
- gas ionisation
- Geiger-Muller (GM)
- compensated GM
- scintillation
- neutron monitors
- solid state
- personal dosimeters (badge and electronic)
- definitions of radiation quantities
- international system (SI) of units for radiation quantities, multiples and sub-multiples, and significant figures
- function of key components and operating principles of radiation measuring instruments used in job role
- effects on results of modifying instrument settings and variables
- basic instrument troubleshooting and maintenance procedures
- guidelines and safety procedures for working with radiation sources, based on principles:
 - reducing exposure time
 - maintaining greatest distance
 - using as much shielding as possible
- techniques for assessing radiation hazards likely to be encountered in job role
- health, safety and workplace emergency response procedures relevant to job role

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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