



**Australian Government**

# **PSPRAD007 Monitor radiation**

**Release: 1**

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## PSPRAD007 Monitor radiation

### Modification History

Release	Comments
1	<p>This unit was released in PSP Public Sector Training Package release 1.0 and meets the Standards for Training Packages.</p> <p>This unit supersedes and is equivalent to PSPRAD401 Monitor radiation.</p> <ul style="list-style-type: none"> <li>• Unit code updated</li> <li>• Content and formatting updated to comply with the new standards</li> <li>• All PC transitioned from passive to active voice</li> </ul>

### Application

This unit describes the skills required to safely monitor radiation and the exposure of people and environment during radiation-related work activities. This involves identifying information about the work activities to be monitored, using the specified monitoring equipment, and applying safe working rules and monitoring procedures to obtain reliable results.

This unit applies to those working in radiation-related work activities, including:

- extracting, milling, processing and packing radioactive ores
- operating, installing, servicing and calibrating fixed radiation gauges, bore hole logging or industrial radiography equipment, and moisture and density gauges
- decontaminating and servicing equipment that has been in contact with radioactive material
- XRF and XRD analysis
- collecting, preparing and testing samples containing radioactive materials
- using radionuclides in a laboratory

The activities may take place:

- at a mine or plant that processes radioactive ore and minerals
- with instruments that emit ionising radiation at geotechnical, construction, mining and manufacturing sites, or analytical and research facilities
- in a laboratory or licensed facility that handles radioactive materials
- in a nuclear facility.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would be authorised by the responsible person to perform routine tasks in familiar contexts.

No licensing, legislative or certification requirements apply to unit at the time of publication.

## Competency Field

Radiation Safety

### Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
<b>1. Prepare for assigned monitoring tasks</b>	1.1 Apply radiation management plans concerning hazards, monitoring equipment and safe working rules. 1.2 Liaise with relevant site personnel to arrange access and confirm the nature and likely duration of assigned monitoring tasks. 1.3 Perform and record pre-use checks of radiation instruments and tag or replace faulty items as necessary. 1.4 Check that personal protective equipment (PPE) and other task-related equipment is fit for purpose. 1.5 Stow all radiation instruments and monitoring equipment to ensure safe transport to the site and within the site.
<b>2. Obtain reliable monitoring data or samples</b>	2.1 Apply safe working rules to minimise personal ionising radiation exposure. 2.2 Conduct regular instrument checks and minor maintenance if required. 2.3 Conduct repeat measurements for quality control purposes and identify and report atypical equipment response. 2.4 Collect and label environmental samples using specified equipment and procedures to preserve their integrity. 2.5 Record atypical radiation conditions. 2.6 Seek advice to deal with any situation beyond own technical competence.
<b>3. Complete assigned monitoring tasks</b>	3.1 Check for contamination of equipment. 3.2 Re-stow all radiation instruments and monitoring equipment to ensure safe transport from the site and within the site. 3.3 Record use of PPE and radiation instruments in accordance with

	<p>radiation management plans.</p> <p>3.4 Check condition of PPE, radiation instruments and monitoring equipment before storing.</p> <p>3.5 Store any samples to preserve their integrity, security and traceability in accordance with sampling procedures.</p> <p>3.6 Manage waste.</p>
<b>4. Analyse monitoring data and report results</b>	<p>4.1 Record results.</p> <p>4.2 Check that recorded outcomes are consistent with expectations.</p> <p>4.3 Compare results with relevant radiation limits and identify and record any significant differences or atypical results.</p> <p>4.4 Identify potential or actual radiation protection issues revealed by the site monitoring tasks.</p> <p>4.5 Identify potential improvements that could be made to monitoring at site.</p> <p>4.6 Maintain required records that are complete, accurate, legible and secure.</p> <p>4.7 Provide site and personal radiation data to authorised personnel.</p>
<b>5. Respond to potential or actual radiation incidents</b>	<p>5.1 Recognise unusual situations, unexpected hazards, and potential or actual emergency radiation incidents.</p> <p>5.2 Inform the responsible person or delegate about the situation, hazard or incident and seek their advice.</p> <p>5.3 Initiate appropriate workplace emergency first response.</p>

## Foundation Skills

Foundation skills are embedded within the elements and performance criteria of this unit.

## Unit Mapping Information

This unit supersedes and is equivalent to PSPRAD401 Monitor radiation.

## 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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