



**Australian Government**

# **PSPRAD001 Work safely in a radiation environment**

**Release: 1**

# PSPRAD001 Work safely in a radiation environment

## 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 PSPRAD201 Work safely in a radiation environment.</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 apply radiation protection and work safety measures when working in an environment where sources of ionising radiation are present. This involves recognising the hazards and risks associated with working near sources of ionising radiation, interpreting and following site safety information, using specified radiation protection and safety measures, applying required operational safety measures, and responding appropriately to actual or potential emergencies.

This unit applies to those to personnel who directly handle, or come in direct contact with, radioactive materials in the mining and mineral processing industry sector and who may receive occupational exposures of greater than 1 millisievert per annum.

These personnel include drillers, miners, loader operators, plant operators, and samplers/testers, laboratory workers, operating theatre staff, contractors, sales and service engineers, who may:

- undertake exploration surveys of radioactive ore bodies
- extract, mill, process or pack radioactive ores, concentrates or mineral products
- manage radioactive by-products, contaminants and/or waste
- rehabilitate mine sites
- undertake laboratory testing
- undertake cabinet x-rays
- service ionising radiation equipment
- work 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 work under direct supervision performing routine tasks, in a familiar context.

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. Complete site safety induction</b>	1.1 Participate in required radiation protection and site safety training. 1.2 Confirm contact details for personnel who can provide emergency and radiation protection and safety information.
<b>2. Recognise site radiation hazards and degree of risk</b>	2.1 Apply information about the nature and magnitude of radiation hazards and degree of risk associated with work activities at the site. 2.2 Apply information about exposure pathways and health effects of radiation exposure. 2.3 Apply information about occupational dose limits. 2.4 Recognise possible sources of personal contamination and implement recommended decontamination procedures. 2.5 Identify hazards and risks in work area prior to starting work, at regular intervals during work, and in response to changes in working conditions. 2.6 Recognise and report non-routine hazards, unusual situations, and potential or actual emergency incidents.
<b>3. Follow procedures for controlling radiation hazards</b>	3.1 Implement instructions based on radiation protection principles during assigned work. 3.2 Apply specified safe working rules, and use required personal protective equipment (PPE) and personal monitoring during assigned work tasks. 3.3 Comply with all site safety signs. 3.4 Observe required standards of personal hygiene and behaviour while on site.

	<p>3.5 Seek advice or instructions to deal with any situation beyond own technical competence.</p> <p>3.6 Apply specified procedures to decontaminate work surfaces and/or personnel as necessary.</p> <p>3.7 Implement instructions for managing contaminated waste produced during assigned tasks.</p> <p>3.8 Advise employer of previous employment involving occupational exposure to radiation and cooperate in obtaining records of previous exposure.</p> <p>3.9 Complete required records and reporting.</p>
<b>4. Follow workplace emergency response procedures</b>	<p>4.1 Review information about workplace emergency response procedures and personal responsibilities in the event of a radiation incident.</p> <p>4.2 Recognise emergency alarms, move to the designated muster point, and follow instructions.</p>
<b>5. Report problems</b>	<p>5.1 Recognise and report defects in plant equipment and procedures that may compromise radiation protection and safety or radiation protection safety standards, codes and guidelines.</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 PSPRAD201 Work safely in a radiation environment.

## 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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