



Australian Government

PSPRAD002 Work safely with radioactive ores and minerals

Release: 1

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Modification History

Release	Comments
1	This unit was released in PSP Public Sector Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to PSPRAD202 Work safely with radioactive ores and minerals. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice

Application

This unit describes the skills required to recognise the hazards and risks of working with uranium and/or thorium ores, mineral sands and any other naturally occurring material and to use appropriate radiation protection and safety measures. This involves recognising the hazards and risks associated with assigned work activities, using the required radiation protection and safety measures, responding appropriately to actual or potential emergencies, and contributing to improved radiation safety.

This unit applies to those 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 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.

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.
1. Identify hazards and associated risks with the site and assigned tasks	1.1 Interpret and apply information about hazards, where necessary requesting further information on radiation protection safety standards, codes and guidelines. 1.2 Implement instructions about site radiation control measures, monitoring, safe working rules and personal protective equipment (PPE) specified for the location and work activities. 1.3 Recognise hazards and risks in work area prior to starting work, at regular intervals during work, and in response to changes in working conditions and seek advice if necessary. 1.4 Recognise and report non-routine hazards and seek advice to deal with any situation beyond own technical competence.
2. Apply required radiation protection and safety measures	2.1 Use recommended hazard and risk control measures and follow safe working rules. 2.2 Comply with all site safety signs. 2.3 Follow required tag-out and lock-out procedures. 2.4 Use plant and equipment supplied for radiation protection or for the monitoring and assessment of radiation exposure. 2.5 Maintain required standards of personal hygiene.
3. Respond to potential or actual radiation incidents	3.1 Recognise any unsafe situation, hazard or incident associated with assigned tasks. 3.2 Inform relevant personnel about the situation, hazard or incident and seek their advice. 3.3 Provide appropriate workplace first response in accordance with instructions and organisation's workplace emergency response procedures.
4. Contribute to radiation safety	4.1 Recognise and report defects in plant, equipment or procedures that may compromise radiation protection and safety or the management of radioactive waste.

	4.2 Participate in required radiation safety training and participative and/or consultative activities within the scope of own responsibilities. 4.3 Advise of previous employment involving occupational exposure to radiation and cooperate in obtaining records of previous exposure. 4.4 Complete required records and reporting.
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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 PSPRAD202 Work safely with radioactive ores and minerals.

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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