



Australian Government

PSPRAD012 Work safely in a radiation environment

Release: 1

PSPRAD012 Work safely in a radiation environment

Modification History

Supersedes and is equivalent to PSPRAD001 Work safely in a radiation environment.

Application

This unit describes the performance outcomes, skills and knowledge required to apply radiation protection and work safety measures when working in an environment where sources of ionising radiation are present.

This unit applies to personnel who handle, or come into 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.

Those undertaking this unit work under direct supervision, performing routine tasks in a familiar context.

The skills in this unit must be applied in accordance with Commonwealth and State or Territory legislation, Australian standards and industry codes of practice.

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

Pre-requisite Unit

Nil

Competency Field

Radiation Safety

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Complete site safety induction.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 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.

2. Recognise site radiation hazards and degree of risk.
 - 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.

3. Follow procedures for controlling radiation hazards.
 - 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.
 - 3.5. Seek advice or instructions to deal with any situation beyond own technical competence.
 - 3.6. Apply specified procedures to decontaminate work surfaces and/or personnel as necessary.
 - 3.7. Implement instructions for managing contaminated waste produced during assigned tasks.
 - 3.8. Advise employer of previous employment involving occupational exposure to radiation and cooperate in obtaining records of previous exposure.
 - 3.9. Complete required records and reporting.

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| 4. Follow workplace emergency response procedures. | 4.1. Review information about workplace emergency response procedures and personal responsibilities in the event of a radiation incident. |
| | 4.2. Recognise emergency alarms, move to the designated muster point, and follow instructions. |
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| 5. Identify and report problems. | 5.1. Recognise defects in plant equipment and procedures that may compromise radiation protection and safety or radiation protection safety standards, codes and guidelines. |
| | 5.2. Report defects in accordance with workplace procedures. |

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS

DESCRIPTION

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|--------------------|---|
| Reading skills to: | <ul style="list-style-type: none">• identify and interpret safety information and signs. |
| Writing skills to: | <ul style="list-style-type: none">• complete routine workplace health and safety records. |

Unit Mapping Information

Supersedes and is equivalent to PSPRAD001 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>