



Australian Government

Assessment Requirements for PSPRAD010
Apply radiation safety knowledge to
develop and implement ionising radiation
management plans

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Modification History

Release	Comments
1	These Assessment Requirements were released in PSP Public Sector Training Package release 1.0 and meet the Standards for Training Packages. Assessment Requirements created drawing upon specified assessment information from superseded unit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.

- sourcing and analysing new and existing information regarding radiation protection, legislation, standards, codes and guidelines
- reviewing and implementing appropriate controls for organisation-wide radiation hazards
- reviewing and implementing controls to minimise the risks of radiation hazards for practices within the control of the responsible person
- ensuring that the legislative responsibilities of the licensee are fulfilled
- implementing radiation safety and related policies, procedures and practices
- ensuring that audits are consistent with organisational policies and procedures
- identifying and procuring radiation sources and equipment
- reviewing and making recommendations in relation to monitoring surveys and data analysis
- providing advice, authorising reports and making decisions within scope of authority
- explaining radiation protection and safety issues, safe working rules and recommended procedures to other personnel
- reviewing training needs in radiation protection and safety, workplace emergency response and environmental protection

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, NORM, contamination, contamination controls, concentration, shielding, half-life, radionuclide, transport index, safe distance, and weighting factor
- types and properties of ionising radiation sources and shielding methods
- radiation quantities, including exposure, dose, effective dose, dose rate, dose equivalent, and dose limits
- exposure pathways and protective measures
- signs and symptoms of radiation exposure, radiation health effects, and deterministic and stochastic effects
- international system (SI) of units for radiation quantities
- function of key components, set-up and calibration checks, and operating principles of radiation instruments, dosimeters and equipment
- detailed requirements of relevant legislation, codes, guidelines and safety procedures for working with radiation sources/equipment
- health and safety and workplace emergency response procedures for radiation-related work activities in organisation
- types of PPE for personnel working in ionising radiation environments and the recommended selection process
- potential adverse health and performance effects of wearing PPE while working in potentially hazardous environments
- principles and techniques for decontamination of personnel and equipment
- techniques and procedures for collecting potentially radioactive samples
- techniques for assessing radiation hazards likely to be encountered in organisation
- techniques for conducting contamination surveys
- techniques for control, containment and confinement of radiation sources/equipment encountered by organisation
- environment, health and safety policy and procedures of the organisation, particularly how different parts of occupational hygiene system are interdependent, including ventilation, noise, radiation and chemicals
- working knowledge of the business activities and operations conducted at the organisation's sites and the associated radiation risks
- critical group analysis, cost-benefit analysis and assessment processes to develop cost effective radiation protection programs
- sources of industry information and information from relevant professional bodies to maintain currency

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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