

PSP80212 Graduate Certificate in Radiation Safety

Release: 1



PSP80212 Vocational Graduate Certificate in Radiation Safety

Modification History

Release	TP Version	Comments
1	PSP12 V1	First release. Supersedes and equivalent to PSP70210

Description

This qualification supports people with responsibility as radiation safety officers (RSOs) and is particularly relevant for those whose responsibilities as an RSO form a significant part of their role.

The candidate may work in a department, organisation, division or business unit that provides advice and guidance to others on radiation safety matters and the development and implementation of ionising radiation management plans. They will have responsibility developing and/or sustaining a radiation safety culture and ensuring that all legislative and organisational requirements are met.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Approved Page 2 of 7

Employability Skills Summary

Employability skill	Industry/enterprise requirements for this qualification include:
Communication	using relevant information sources to locate and interpret information about the safe transport of radioactive materials
	 interpreting radiation labels, placards and safety signs
	 completing documentation accurately with close attention to detail
	 interpreting guidelines for consigners, carriers and consignees defined in local regulations and relevant codes
	 using technical words, such as radioactivity, radioactive material, ionising radiation, contamination, contamination controls, shielding, half-life, Transport Index, and safe distance
	 interpreting information on radiation labels, placards, emergency information sheets and safety signs, and in transport documents relevant to job role
	 interpreting manuals for radiation monitoring equipment used in job role or duties
	 interpreting guidelines and safety procedures for working with radiation sources (based on principles of reduce exposure time, maintain greatest distance and use as much shielding as possible)
	 interpreting manuals for radiation sources/equipment and radiation instruments used in organisation
	 using plain English to explain radiation protection and safety issues, safe working rules and recommended procedures to other personnel
	• interpreting manuals and writing operating instructions for radiation measuring instruments used in organisation
	 applying requirements of house or other style manual protocols for written communications
	using advanced literacy skills to read, write, edit and proofread documents to ensure clarity of meaning, accuracy and consistency of information
	 actively promote the need to make doses as low as reasonably achievable consistent with organisational policy, procedures and legislation
Teamwork	seeking advice or further directions when faced with unexpected situations that may require decisions or actions beyond own technical competence
	designing, planning and conducting monitoring surveys

Approved Page 3 of 7

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	 listening to and questioning clients and other audit team members relating to people from diverse backgrounds and abilities using interpersonal skills to establish rapport with clients and to liaise with other audit team members
Problem-solving	recognising the limitations, restrictions and applicability of various detector units
	 using relevant information sources to locate and interpret information about radiation sources/equipment encountered in job role or duties
	 processing and analysing radiation monitoring data
	 identifying types and properties of ionising radiation (e.g. alpha, beta, gamma, neutron, X-ray, electron), sources and shielding methods
	 applying definitions of radiation quantities, such as exposure, dose, effective dose, dose rate, dose equivalent, and dose limits
	 assessing/re-assessing risks and hazards and designing appropriate controls
	 choosing and using appropriate available radiation sources/equipment and radiation instruments
	 identifying exposure pathways and protective measures, signs and symptoms of radiation exposure, radiation health effects, and deterministic and stochastic effects
	 analysing potential adverse health and performance effects of wearing personal protective equipment while working in potentially hazardous environments
Initiative and enterprise	 regularly assessing/re-assessing risks and hazards and taking appropriate protective measures
	 seeking advice and further directions when faced with unforeseen circumstances or situations that may require decisions or response actions beyond technical competence
	 initiating audits/inspections of radiation protection and safety systems
	 maintaining working knowledge of the business activities and operations conducted at the organisation's sites and the associated radiation risks
Planning and organising	analysing types and properties of ionising radiation and interpreting relevant dose limits
0 0	applying health, safety and workplace emergency response procedures, safe working rules, personal hygiene

Approved Page 4 of 7

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	requirements and safe operating procedures for equipment relevant to job role
	 recognising different types of monitoring equipment such as air proportional, gas proportional, gas ionisation, Geiger-Muller, scintillation, neutron monitors, solid state, personal dosimeters (badge and electronic)
	 conducting pre-use checks for radiation instruments and monitoring equipment used in job role or duties
	 collecting, labelling and preserving occupational and environmental samples
	 using and caring for personal protective equipment used in job role
	 applying techniques and procedures for collecting (potentially) radioactive samples (if required in job role or duties)
	 applying techniques for assessing radiation hazards likely to be encountered in job role or duties
	 applying techniques for conducting monitoring surveys used in job role or duties
	 developing plans, organisational policy and procedures and safe work practices
	 applying principles and techniques for decontamination of personnel and equipment
	 applying techniques and procedures for collecting (potentially) radioactive samples
	 applying techniques for assessing radiation hazards likely to be encountered in organisation
	• applying techniques for conducting contamination surveys
	 applying techniques for control, containment and/or confinement of radiation sources/equipment encountered by organisation
Self-management	 using organisational, planning and time management skills to sequence tasks, and meet timelines
	 conducting inspections and arranging meetings
	 negotiating targets for radiation safety key performance indicators
	 analysing audit information to identify non-conformances and opportunities for improvements and provide recommendations to licensee or responsible person
Learning	 reviewing training needs regularly in radiation protection/safety, workplace emergency response and environmental protection
	undertaking research to ensure that the legislative

Approved Page 5 of 7

	responsibilities of the licensee are fulfilled
	 sourcing and analysing new and existing information regarding radiation protection, legislation, standards, codes and guidelines
	 monitoring industry information and information from relevant professional bodies to maintain currency
	 working knowledge of the business activities and operations conducted at the organisation's sites and the associated radiation risks
Technology	using and caring for personal monitoring equipment
Ov	using monitoring equipment to measure radiation
	safely operating radiation instruments and monitoring equipment used in job role or duties to obtain reliable data
	 selecting and using types of personal protective equipment for personnel working in ionising radiation environments and the recommended selection process
	 safely operating radiation measuring instruments used in job role to obtain reliable data
	identifying characteristics, capabilities, limitations, function of key components and operating principles for radiation measuring instruments used in organisation
	 assessing common instrument faults, troubleshooting, and recommending remedial actions and repairs
	using software applications relevant to conducting quality auditing activities

Packaging Rules

7 units of competency are required for this qualification:

• 7 core units

Core units	
BSBAUD503B	Lead a quality audit
PSPRAD302	Consign radioactive material
PSPRAD707A	Monitor radiation
PSPRAD708A	Coordinate radiation safety
PSPRAD709A	Select, commission and maintain radiation measuring instruments

Approved Page 6 of 7

PSPRAD710A	Apply radiation safety knowledge to develop and implement ionising radiation management plans
PUAWER009B	Participate as a member of a workplace emergency initial response team

Approved Page 7 of 7