

LEARNING OUTCOMES

24 Ionising Radiation

	Cognitive level	What the graduate should be able to do	Context	Level
Operational activities that a <u>new graduate</u> generalist OHS professional would be expected to undertake related to the topic	5	24.1 <u>Develop</u> criteria for design or modification of the workplace to minimise hazards related to ionising radiation.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists.	In liaison with managers, supervisors and technical personnel Taking account of relevant legislation and standards.
	5	24.2 <u>Facilitate</u> development and implementation of control strategies for ionizing radiation.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists.	In liaison with managers, supervisors, technical personnel and worker representatives. Taking account of relevant legislation and standards.
	5	24.3 <u>Develop and maintain</u> a safe system of work relating to ionising radiation.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists.	System of work includes routine and non-routine operations.
Well-developed/advanced cognitive and technical skills to analyse, critically evaluate and transform information to complete activities related to the topic	6	24.4 <u>Apply</u> knowledge of the health effects of ionising radiation to identify and <u>assess/evaluate</u> the hazard and associated risks.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists as appropriate.	In consultation with appropriate workplace personnel. With sign off by a technical specialist where the risk may be critical. Documented in a report to management.
	5	24.5 <u>Develop</u> processes to monitor and evaluate control strategies for ionising radiation.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation.	Documented in a report to management.

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			With support/input by experienced professionals and /or technical specialists as appropriate.	
Analyse and generate solutions to complex problems related to the topic	3	24.6 Identify when specialist advice is required and define the scope of work to engage services of appropriate specialists	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation.	Documented in a report to management.
	5	24.7 Apply knowledge of the health effects of ionising radiation, the regulatory framework and standards to <u>develop</u> a hazard management strategy for ionising radiation.	For a nominated situation or workplace. For a nominated scenario. Within a small organisation or section of a larger organisation. With support/input by experienced professionals and /or technical specialists as appropriate.	Documented as a management system document.
	3	24.8 Engage with relevant personnel to implement the ionising radiation hazard management strategy.	For a nominated situation or workplace. Within a small organisation or section of a larger organisation.	Relevant personnel include managers, supervisor, job planners, worker representatives and technical specialists.
Transmit knowledge, skills and ideas to others	3	24.9 Interpret information to explain the health effects of ionising radiation, the way in which it causes harm, the level of risk and rationale for control strategies.	Information may include specialist reports.	Communication strategies and language appropriate to the audience.
	2	24.10 Explain the work, health and safety procedures relating to ionising radiation.	In induction and similar processes.	To all staff and contractors. Communication strategies and language appropriate to the audience.
Demonstrate the required underpinning science and/or psychology knowledge		Underpinning science: related to the behavior of ionising radiation and the physiological effects on the human body.		
Integration of knowledge from other chapters		12.1 Systems and Systems Thinking; 12.2 OHS Management Systems 31.1 Risk as it applies to ionising radiation 34.1 Prevention and Intervention as it applies to ionising radiation; 34.3 Health and Safety in Design.		