Constantion Safety in Australia through Applied Training and Outreach

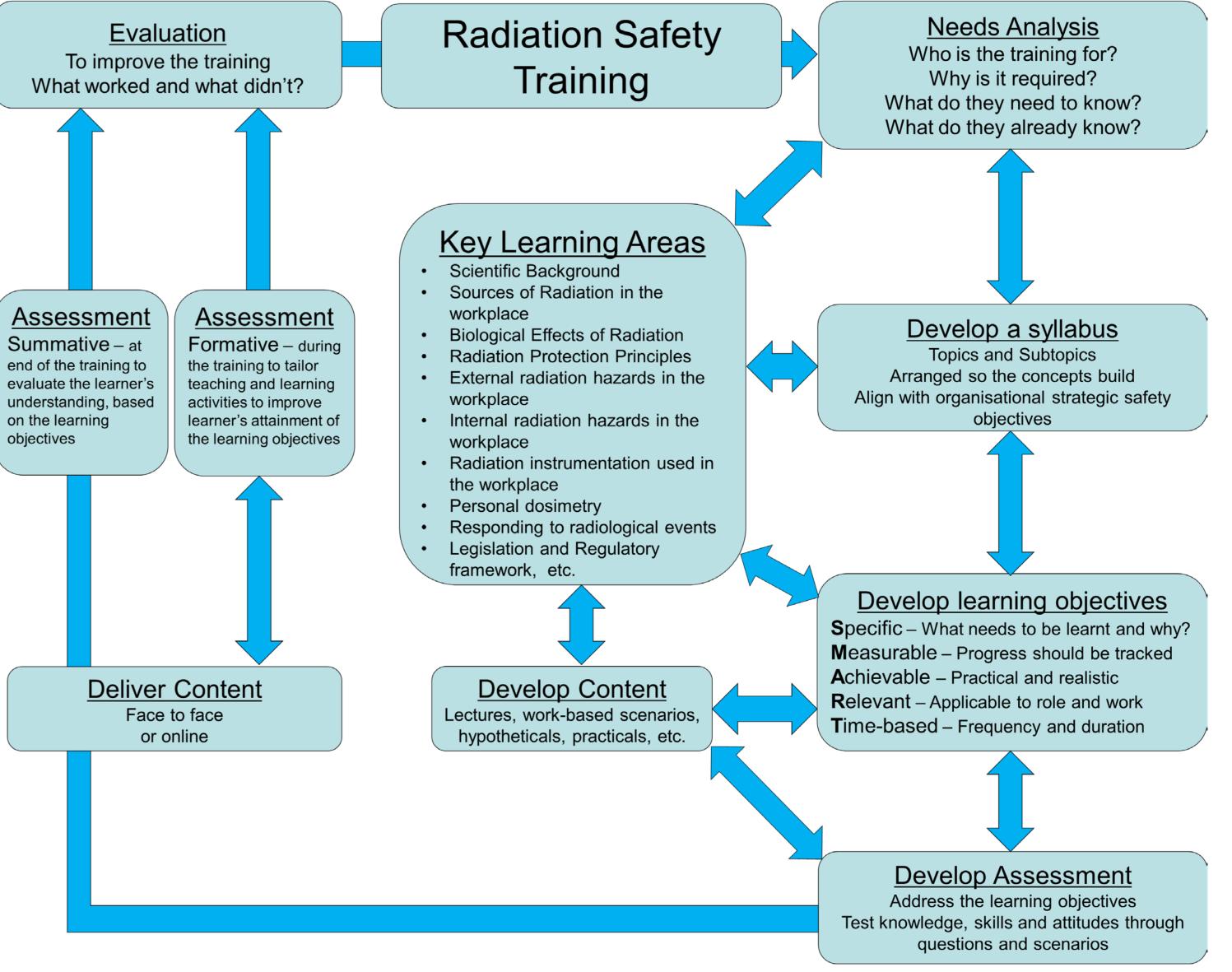
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Introduction

The Australian Nuclear Science and Technology Organisation (ANSTO) is the centre of Australia's capabilities and expertise in nuclear science and technology, operating the nation's only multi-purpose reactor, OPAL, in Sydney and the Australian Synchrotron in Melbourne. In order to run all infrastructure efficiently and effectively, ANSTO needs suitably qualified and experienced workers who understand and embrace radiation safety culture. This is achieved, in part, through in-house development and regular delivery of applied training to ensure knowledge, skills and experience in radiation safety are fostered and sustained.

ANSTO has been recognised for setting the benchmark for radiation safety training in Australia and also offers radiation safety training to external clients in mining, health care, government, education, universities and research sectors.



To maintain and enhance our social licence to operate our nuclear and radiological facilities, and to demonstrate leadership in the education of Australia's next generation, ANSTO communicates to a wide range of stakeholders, including community groups, students, teachers, regulatory officers, industry and government representatives, and international partners. This is done using various methods, such as tours, teacher professional development, school workshops, online resources, and interactive community events.

> Bus, J., "A Systematic Approach to Radiation Safety Training", Australasian Radiation Protection Society (ARPS) 41st Annual Conference, Adelaide, Australia, September 2016.

ANSTO Radiation Safety Framework for Training



ANSTO specific training			Commercially available training				
Basic radiation safety	Radiation safety workshop	Facility specific radiation safety	Radiation safety for laboratory Safe use of industrial gauges Safe use of x-ray device workers	s General Radiation Safety Officer	Industrial Radiation Safety Officer	Advanced Radiation Safety Officer	

Objective is to develop sufficient radiation protection knowledge and skills to be able to:

Recognise the need for an operational and management framework for the safety and security of radioactive material and radiation apparatus.		Recognise the need for an operational and management framework for the safety and security of radioactive material.		Recognise the need for an operational and management framework for the safety and	Recognise the need for an operational and management framework for the safety and security of radioactive material and radiation apparatus.				
Be aware of radiation safety responsibilities when working in a controlled or supervised area with ionising radiation.			Be aware of radiation safety responsibilities when working in a controlled or supervised area with radioactive material.		security of radiation apparatus.	Develop and implement a radiation protection program.			
5					Be aware of radiation safety responsibilities when working in a controlled or supervised area with radiation apparatus.		ls and requirements.		
Audience includes:	Audience includes:								
Workers who enter or have the	e potential to enter a Radiation or Cor	ntamination classified area:	Personnel that have operational o	r management responsibilities for ra	adioactive material and/or radiation	apparatus as part of their work:			
	and are to be enrolled on the ANSTO dosimetry service.	and require specific knowledge of that designated area.	 at a research facility, such as laboratory technicians, visiting researchers, post docs, academics. at a radiopharmaceutical production facility, such as quality assurance and production workers. at hospitals in nuclear medicine or oncology departments. 		 at a research facility, such as laboratory technicians, visiting researchers, post docs, academics. at hospitals in emergency or oncology departments. at security check-points, or customs inspection sites. 	 as a Radiation Safety Officer at a research facility. a radiopharmaceutical production facility, a hospital nuclear medicine or oncology department. for transporting Class 7 dangerous goods, or responding to emergencies. 	 as a Radiation Safety Officer at a mine or plant that processes radioactive ore and/or minerals; with instruments that emit ionising radiation at geotechnical, construction, mining and manufacturing sites; transporting Class 7 dangerous goods; responding to emergencies. 	who deal, or intend to deal with radiation safety issues on a daily basis, and/or are required to be a Radiation Safety Officer with responsibilities for a range of radiation sources (sealed or unsealed), radiation apparatus, or ionising radiation services in a variety of practices.	
Duration									
3 hours	5 hours	Local schedule of training	1 day	1 day	1 day	3 days	3 days	5 days	

ANSTO Outreach



School Tours	Education Events	Workshops	E-learning	Resources	Community
Primary School Up and Atom Tour Introduction to the Atom and Nuclear Science SC Chemistry & Physics Science Discovery Careers Q&A HIFAR Historical Tours	Teacher Professional Development Teacher Conferences Science and Engineering Challenges National Summit	Science Workshop for Kids Coding and Robotics Workshop Atomic Workshop	"Meet an expert" Nuclear Science Inquiry Skills HSC revision Human Endeavour Online resources Apps and Games	Apps and Games Posters Workbooks Factsheets Videos	Fact or Fiction show Citizen Science programs Sponsorship of key local events Science Awards Guest presentations
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6th International Conference on Education and Training in Radiological Protection 30 May to 2 June 2017, Valencia, Spain