

Introduction to Nuclear-Powered Submarines Education Sessions

ALARP Solutions and Risktec Solutions are running a 2-day education session for personnel wishing to increase their awareness about Australia becoming a nuclear-powered submarine nation. It will be an opportunity to debunk some common myths and misconceptions about nuclear-powered submarines.

Delivered by nuclear physicists, engineers and submarine specialists, this course is aimed at individuals and organisations who require a basic understanding of nuclear energy, how it is used to power submarines, and broader considerations for Australia including the management of nuclear safety and regulation.

The course provides a high-level understanding of nuclear energy and safety principles and is suitable for anyone who will potentially be involved in or impacted by the acquisition, operation, and future sustainment of nuclear submarines in Australia.

Course Outline

- **Module 1** – teaches students the basics of nuclear physics
- **Module 2** – outlines the benefits and harmful effects from radiation on systems, personnel and environment
- **Module 3** – describes the types of nuclear reactors and how we harness the energy from nuclear reactions
- **Module 4** – outlines the potential hazards and risks associated with the design, build, and operation of nuclear submarines and infrastructure
- **Module 5** – outlines the principles of regulation and the important role and function of the nuclear regulator
- **Module 6** – provides a basis to understanding how a case for safety for nuclear submarines and infrastructure would be developed and maintained
- **Module 7** – provides an overview of the nuclear lifecycle from mining uranium from the ground through to disposal of nuclear waste

Dates: 21st – 22nd September – Adelaide, SA
17th – 18th October – Henderson, WA
24th – 25th October – Canberra, ACT
(Others dates available on request)

Cost: \$1,650 per student (inc GST)
Group discounts apply on enquiry
In-house training options available

Bookings/Enquiries: training@alarpsolutions.com.au



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