Advanced radiation safety officer (5 days)

Outcome
To be recognised as a Radiation Safety Officer across Australia

Audience
People who deal with radiation safety issues on daily basis, or are required to be a radiation safety officer with responsibility for range radiation sources or devices.

The range of devices may include x-ray devices, portable moisture density gauges, radiation in the laboratory, fixed industrial gauges, Naturally Occurring Radioactive Material, storage of radioactive materials.

The range of responsibilities may include writing radiation safety management plans, risk assessment, transport and storage of radioactive materials, radiation safety training and supervision of staff, purchase, selection and calibration of instrumentation and equipment.

The industries from which people attend are varied from emergency services, regulators, universities, hospitals, mines, paper mills, research institutions, radiation instrument detection manufacturers, factories, oil & petroleum, construction, Non Destructive Testing and defence.

Assumed basic knowledge of maths and science.

Course Content

General Radiation Protection Sessions
- Pre-Course Revision of Scientific Background
- The Chart of Nuclides
- Introduction to Radiation Protection Principles
- The External Radiation Hazard
- Workshop: Rules of Thumb
- Shielding of Ionising Radiation
- Practical: Shielding
- Internal Radiation
- Background Radiation
- Biological Effects

Instrumentation Sessions
- Types of Detection Instrumentation & Design
- Choosing the right Instrument
- Personal Dosimetry
- Gamma Spectrometry
- Practical: Set up a GM
- Tour of the Instrument Calibration Facility & Demonstration of Instrument Calibration

Specialised Radiation Protection Sessions
- Legislation, Codes of Practice and Resources
- Role of a Radiation Safety Officer
- Safe Use of X-ray equipment
- Industrial Radiation
- Radioactive Waste Management
- Practical: Radiation Survey
- Practical: Surface Contamination Survey and analysis of results
- Practical: Surface Decontamination and Waste
- Security of Radiation Sources
- Safe Transport of Radioactive Materials
- Workshop: Safety Assessments
- Accident & Emergency Responses, Codes & Standards - A Model System
- Workshop: Accident and Incident scenarios

Tour of an aspect of ANSTO facilities relevant to Radiation Protection Systems
* Guest speakers present on two of the nights

Duration
5 days, 8:30am – 5:00pm + 2 evenings* (dinner inclusive)

Cost
$2500 + GST

For more information or a quote please contact Radiation Safety

Radiation Safety Co-ordinator Ph: +61 2 9717 9434 Email: safetytraining@ansto.gov.au