

FIXED RADIATION GAUGES

RADIATION PROFESSIONALS AUSTRALIA – 3-Day Course



This 3-day radiation safety course is appropriate for personnel who have responsibilities for dealing with fixed radiation gauges and the associated radiation management practises onsite.

This course is appropriate for personnel involved in Oil & Gas, Mining and other Industrial sectors where fixed radiation gauges are used. This course is aligned with the Code of Practice and Safety Guide for the Safe Use of Fixed Radiation Gauges. This course is recognised as meeting the training course requirements for persons wishing to obtain a licence for the purpose of Use of Fixed Radiation Gauges—Industrial and to act as the Radiation Safety Officer (RSO) for the gauges.

CERTIFICATION:

A moderate level of maths is required for this course.

Upon successful completion of this course trainees will be issued with a Certificate of Competency for the Safe Use of Fixed Radiation Gauges and qualification for pre-requisite approval for licensing.

COURSE STRUCTURE:

- **Basic Fundamentals –**
 - Structure of Matter
 - Radioactivity and Radiation
 - Measuring and Units
 - Biological Effects
 - Natural and Man-made radiation
- **Radiation Monitoring –**
 - Monitoring potential exposure pathways
 - Choosing the correct instrument
 - Other types of monitoring
 - Spectroscopy & Spectrometers
 - Personal Dosimetry
 - Calibration and response checks
- **Radiation Gauges**
 - X-ray tube & generator
 - The housing
 - Shutters & Interlocks
 - Test Housing
 - Wipe testing
- **Protection Principles –**
 - Structure of Matter
 - Radioactivity and Radiation
 - Measuring and Units
 - Biological Effects
 - Natural and Man-made radiation
- **Regulatory Considerations**
 - Legislation and Regulation
 - Radiation Safety Officer
 - Reporting & Audits
- **Transport of Gauges**
 - Transport of Radioactive Materials
 - Requirements for transport
- **Radiation Management**
 - Security & Emergency procedures
 - Radiation Management Plans

