Radiation Safety - Safely Working with Radioactive Materials

Venue Information

Venue: London UK

Place:

Start Date: 2026-10-20

End Date: 2026-10-24

Course Details

Net Fee: £4750.00

Duration: 1 week

Category ID: STC

Course Code: STC-10

Syllabus

courses Syllabus

Introduction:

This highly interactive training courses equips participants with essential knowledge and skills to manage both ionizing and non-ionizing radiation materials safely and confidently. It emphasizes personnel health and safety and environmental protection in various sectors where radioactive materials are commonly used, stored, and disposed of.

Objectives:

Upon completion of this courses, participants will be able to:

- Conduct radiation exposure assessments effectively.

- Safely transport, transfer, and dispose of radiation materials.

courses Content:

Day 1: Fundamentals of Radiation Safety

Detailed:

- Understanding radiation and its types.
- Overview of ionizing and non-ionizing radiation sources.
- Assessing risks associated with radiation.
- Commonly used radiation materials in various industries.

Day 2: Effects of Radiation on the Human Body

Detailed:

- Units of radiation exposure and dose concentrations.
- Biological effects of radiation on the human body.
- Categorizing radiation exposure effects.
- Acute and delayed effects of radiation exposure.

Day 3: Radiation Exposure Risk Assessment

Detailed:

- Elements of exposure assessment.
- Identifying potential radiation exposure pathways.
- Evaluating short and long-term effects of radiation.
- Estimating impacts of radioactive chemicals and particulates.

Day 4: Radiation Management & Control Procedures

Detailed:

- Security measures for radioactive materials.
- Monitoring and detection methods for radiation exposure.
- Radiation protection solutions: time, distance, and shielding.
- Laboratory radiation safety processes and procedures.

Day 5: Radiation Management Principles

Detailed:

- Safe disposal, transport, and transfer of radioactive materials.