

# Radiation Safety – Safely Working with Radioactive Materials

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-07-14

**End Date:** 2025-07-18

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 week

**Category ID:** STC

**Course Code:** STC-10

## Syllabus

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### **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.

