



Renewable Energy & Engineering

Nuclear Security



- Location: London
- Date: From 20/1/2025 To 24/1/2025
- Investment: \$5950 (Excluding VAT)



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Course Introduction

Nuclear Security is a critical aspect of ensuring the safe and peaceful use of nuclear materials. This 5-day intensive course provides a comprehensive overview of nuclear security principles, practices, and international standards. Participants will gain a deep understanding of the threats to nuclear security, the measures to mitigate these threats, and the role of international cooperation in safeguarding nuclear materials

Training Method

- Pre-assessment
 - Live group instruction
 - Use of real-world examples, case studies and exercises
 - Interactive participation and discussion
 - Power point presentation, LCD and flip chart
 - Group activities and tests
 - Each participant receives a binder containing a copy of the presentation
 - slides and handouts
 - Post-assessment
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Course Objectives

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

- Understand the fundamentals of nuclear security: including threats, vulnerabilities, and safeguards.
- Apply international standards and guidelines: to nuclear security operations.
- Develop and implement effective security measures: to protect nuclear materials and facilities.
- Respond to security incidents and emergencies: in a timely and effective manner.
- Collaborate with international organizations and other stakeholders: to enhance nuclear security.

Who Should Attend?

This course is suitable for:

- Nuclear security personnel: Guards, inspectors, and supervisors.
 - Law enforcement officers: Involved in nuclear security.
 - Government officials: Working in nuclear regulatory agencies.
 - Nuclear facility personnel: Engineers, technicians, and managers.
 - International organizations: Staff working on nuclear security and non-proliferation.
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Course Outline

Day 1: Introduction to Nuclear Security

- Fundamentals of Nuclear Security:
 - o Definition and scope of nuclear security
 - o Threats to nuclear security (theft, sabotage, terrorism)
 - o International legal framework (NPT, IAEA safeguards)
- Physical Protection of Nuclear Materials and Facilities:
 - o Security barriers and perimeter protection
 - o Access control and personnel security
 - o Contingency planning and emergency response

Day 2: Nuclear Material Accountancy and Control

- Nuclear Material Accounting:
 - o Material balance areas and key measurement points
 - o Inventory verification and reconciliation
 - o Statistical techniques for nuclear material accounting
- Nuclear Material Control:
 - o Physical inventory verification
 - o Item accounting and records
 - o Containment and surveillance

Day 3: Nuclear Security Culture and Human Factors

- Security Culture:
 - o Promoting a strong security culture
 - o Employee awareness and training
 - o Human error and its prevention
- Insider Threats and Insider Risk Management:
 - o Identifying and mitigating insider threats
 - o Security clearance and access control
 - o Psychological screening and behavioral indicators

Course Outline

Day 4: Cybersecurity and Cyber Threats

- Cybersecurity in Nuclear Facilities:
 - o Cyber threats to nuclear facilities
 - o Network security and information protection
 - o Incident response and recovery
- Cybersecurity Standards and Regulations:
 - o International standards (e.g., IEC 62443)
 - o National regulations and guidelines

Day 5: International Cooperation and Emerging Challenges

- International Cooperation in Nuclear Security:
 - o IAEA initiatives and programs
 - o Regional cooperation and information sharing
 - o International legal instruments and treaties
- Emerging Challenges in Nuclear Security:
 - o Nuclear terrorism and illicit trafficking
 - o Nuclear smuggling and proliferation
 - o Future trends and challenges in nuclear security

Registration & Payment

Complete & Mail to London Royal Academy or email
registration@londonra.com

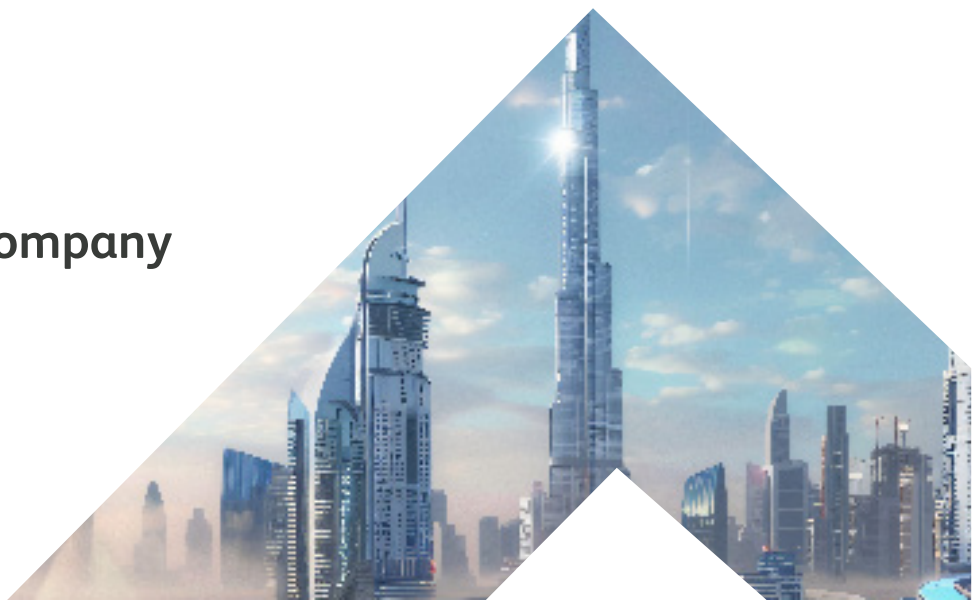


Registration Form

- Full Name (Mr / Ms / Dr / Eng)
- Position
- Telephone / Mobile
- Personal E-Mail
- Official E-Mail
- Company Name
- Address
- City / Country

Payment Options

- Please invoice me
- Please invoice my company





Terms & Conditions

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Cancellation and Refund Policy

Delegates have 14 days from the date of booking to cancel and receive a full refund or transfer to another date free of charge. If less than 14 days' notice is given, then we will be unable to refund or cancel the booking unless on medical grounds. For more details about the Cancellation and Refund policy, please visit www.londonra.com/terms-and-conditions/

Registration & Payment

Please complete the registration form on the course page & return it to us indicating your preferred mode of payment. For further information, please get in touch with us

Course Materials

The course material, prepared by the LRA, will be digital and delivered to candidates by email

Certificates

Accredited Certificate of Completion will be issued to those who attend & successfully complete the programme.

Travel and Transport

We are committed to picking up and dropping off the participants from the airport to the hotel and back.



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THANK YOU

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