

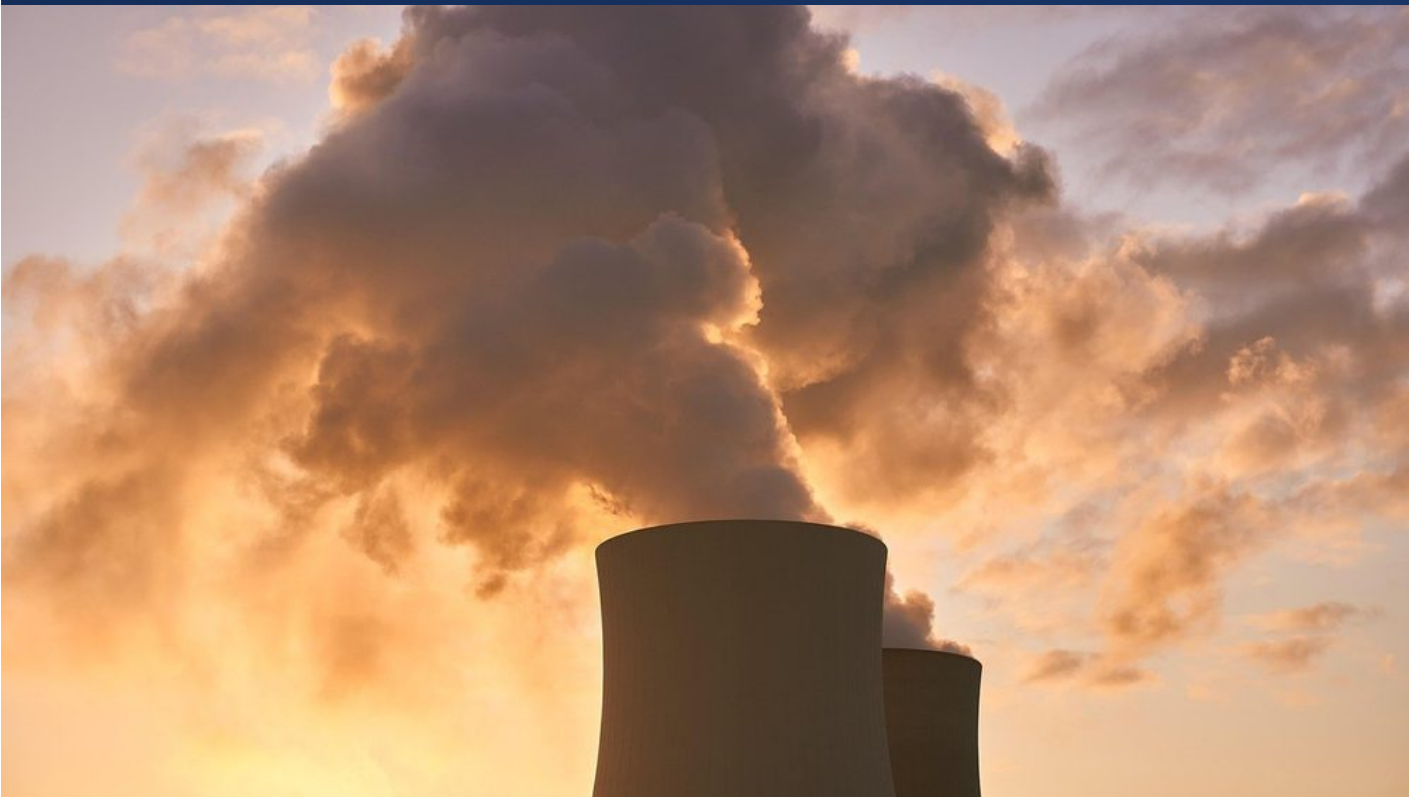
LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001NUC — Occupational Health and Safety in Nuclear Power Plants

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference ENG-NUC-45001NUC • ISO Energy

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AT A GLANCE

REFERENCE	ENG-NUC-45001NUC
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Continuous Improvement in Safety Practices 0 chapters65 marks	
2 Emergency Preparedness and Response 5 chapters · 30 classes65 marks	• 1 Understanding the Framework of Emergency Preparedness in Nuclear Plants — 6 classes › 1.1 Define Emergency Preparedness Concepts in Nuclear Environments › 1.2 Identify Key Regulatory Frameworks for Nuclear Emergency Response › 1.3 Analyze Roles and Responsibilities in Emergency Management Teams › 1.4 Assess Potential Emergency Scenarios in Nuclear Power Operations › 1.5 Develop an Effective Emergency Response Plan Template › 1.6 Evaluate Drills and Training Effectiveness in Emergency Preparedness • 2 Risk Assessment and Hazard Identification in Nuclear Environments — 6 classes › 2.1 Identify Key Hazards in Nuclear Environments › 2.2 Assess Risks Associated with Nuclear Plant Operations › 2.3 Evaluate Emergency Scenarios in Nuclear Contexts › 2.4 Develop Risk Mitigation Strategies for Identified Hazards › 2.5 Implement Communication Protocols for Emergency Preparedness › 2.6 Conduct a Practical Drill for Hazard Identification and Response • 3 Developing Effective Emergency Response Plans — 6 classes › 3.1 Identify Key Components of an Emergency Response Plan › 3.2 Assess Potential Hazards and Risks in Nuclear Facilities › 3.3 Develop Clear Communication Strategies for Emergencies › 3.4 Create Training Protocols for Emergency Response Teams › 3.5 Conduct Drills and Simulations for Effective Response Practice › 3.6 Evaluate and Revise Emergency Plans Based on Feedback • 4 Training and Drills for Nuclear Emergency Scenarios — 6 classes › 4.1 Identify Key Emergency Scenarios in Nuclear Power Operations › 4.2 Understand the Roles and Responsibilities During Nuclear Emergencies › 4.3 Develop Effective Emergency Response Plans for Nuclear Power Plants › 4.4 Implement Communication Strategies for Nuclear Emergency Drills › 4.5 Execute Simulation Drills for Nuclear Emergency Preparedness › 4.6 Evaluate Drill Outcomes and Improve Emergency Response Protocols • 5 Crisis Communication and Public Safety Management — 6 classes › 5.1 Define Crisis Communication in Nuclear Power Contexts › 5.2 Identify Key Stakeholders in Emergency Situations › 5.3 Develop Effective Communication Strategies for the Public › 5.4 Assess Risks and Determine Information Needs During Crises › 5.5 Create Simulated Crisis Scenarios for Practice › 5.6 Evaluate the Impact of Communication on Public Safety Perceptions

• 1 Introduction to ISO 45001 and Occupational Health and Safety in Nuclear Power Plants — 6 classes

- › 1.1 Explore the Foundations of ISO 45001 in Nuclear Context
- › 1.2 Identify Key Principles of Occupational Health and Safety Management
- › 1.3 Assess the Benefits of Implementing ISO 45001 in Nuclear Power Plants
- › 1.4 Recognize Roles and Responsibilities in Health and Safety Leadership
- › 1.5 Evaluate Risk Assessment Strategies in Nuclear Safety Frameworks
- › 1.6 Develop an Action Plan for ISO 45001 Implementation in Your Organisation

• 2 Key Components of Health and Safety Management Systems in Nuclear Energy**• 3 Regulatory Framework and Compliance Requirements for Nuclear Safety****• 4 Leadership and Culture in Safety Management Practices****• 5 Continuous Improvement and Performance Measurement in Occupational Health and Safety****• 1 Fundamentals of Nuclear Safety Regulations** — 6 classes

- › 1.1 Define Key Concepts of Nuclear Safety Regulations
- › 1.2 Understand the Legal Framework Governing Nuclear Safety
- › 1.3 Identify Responsibilities of Stakeholders in Nuclear Safety
- › 1.4 Explore the Role of Risk Assessment in Nuclear Safety
- › 1.5 Examine the Procedures for Incident Reporting and Investigation
- › 1.6 Apply Nuclear Safety Regulations to Real-World Scenarios

• 2 Framework of ISO 45001 and Its Application in Nuclear Energy — 6 classes

- › 2.1 Explore the Structure of ISO 45001 Standards
- › 2.2 Analyze Key Principles of Occupational Health and Safety
- › 2.3 Discuss the Importance of Leadership in Nuclear Safety
- › 2.4 Identify Roles and Responsibilities in ISO 45001 Implementation
- › 2.5 Evaluate Risk Management Strategies in Nuclear Environments
- › 2.6 Develop an Action Plan for ISO 45001 Compliance in Nuclear Plants

• 3 Risk Assessment and Management in Nuclear Safety — 6 classes

- › 3.1 Identify Potential Hazards in Nuclear Power Operations
- › 3.2 Analyze Risk Factors Associated with Nuclear Safety
- › 3.3 Evaluate Existing Risk Assessment Methodologies
- › 3.4 Develop Mitigation Strategies for Identified Risks
- › 3.5 Implement and Communicate Safety Protocols
- › 3.6 Review and Update Risk Management Plans Regularly

• 4 Compliance and Regulatory Requirements in Nuclear Power Operations — 6 classes

- › 4.1 Identify Key Compliance Standards in Nuclear Safety
- › 4.2 Analyze the Role of Regulatory Bodies in Nuclear Operations
- › 4.3 Assess the Impact of Non-Compliance on Nuclear Safety
- › 4.4 Evaluate Risk Management Strategies in Nuclear Facilities
- › 4.5 Implement Best Practices for Regulatory Compliance
- › 4.6 Develop a Compliance Monitoring Plan for Nuclear Power Plants

• 5 Leadership and Continuous Improvement in Nuclear Safety Culture — 6 classes

- › 5.1 Define Key Concepts of Nuclear Safety Leadership
- › 5.2 Identify Characteristics of an Effective Safety Culture
- › 5.3 Assess Current Leadership Practices in Nuclear Safety
- › 5.4 Analyze Case Studies of Leadership Failures in Nuclear Safety
- › 5.5 Develop Strategies for Continuous Improvement in Safety Practices
- › 5.6 Create a Leadership Action Plan for Enhancing Nuclear Safety Culture

• 1 Understanding Risk Assessment Fundamentals in Nuclear Settings — 6 classes

- › 1.1 Define Key Concepts in Risk Assessment for Nuclear Environments
- › 1.2 Identify Types of Risks in Nuclear Power Plants
- › 1.3 Analyze Risk Factors Specific to Nuclear Operations
- › 1.4 Evaluate the Importance of Risk Assessment in Safety Culture
- › 1.5 Apply Risk Assessment Methodologies to Nuclear Scenarios
- › 1.6 Develop a Basic Risk Management Plan for a Nuclear Facility

• 2 Identifying Hazards and Risk Factors in Nuclear Operations — 6 classes

- › 2.1 Define Key Concepts of Hazards and Risk Factors in Nuclear Operations
- › 2.2 Identify Common Hazard Types in Nuclear Power Plants
- › 2.3 Analyze the Impact of Human Factors on Safety Risks
- › 2.4 Examine Regulatory Requirements for Risk Assessment in Nuclear Settings
- › 2.5 Apply Risk Assessment Techniques to Nuclear Operations Scenarios
- › 2.6 Develop Action Plans for Mitigating Identified Risks in Nuclear Environments

• 3 Evaluating Risks: Techniques and Tools for Nuclear Safety — 6 classes

- › 3.1 Identify Key Risk Factors in Nuclear Operations
- › 3.2 Analyze Risk Scenarios Using Qualitative Techniques
- › 3.3 Evaluate Risk Quantification Methods for Nuclear Safety
- › 3.4 Apply the Bowtie Method for Risk Management
- › 3.5 Utilize Incident Data to Inform Risk Assessment
- › 3.6 Develop an Action Plan Based on Risk Evaluation Findings

• 4 Implementing Control Measures and Mitigation Strategies — 6 classes

- › 4.1 Identify Key Control Measures for Occupational Health and Safety
- › 4.2 Assess the Effectiveness of Existing Mitigation Strategies
- › 4.3 Develop a Framework for Implementing New Control Measures
- › 4.4 Analyze Case Studies of Successful Risk Mitigation in Nuclear Power
- › 4.5 Facilitate Team Discussion on Challenges in Control Measure Implementation
- › 4.6 Create an Action Plan for Continuous Improvement in Risk Management

• 5 Continuous Monitoring and Improvement of Risk Management Practices — 6 classes

- › 5.1 Establish Continuous Monitoring Protocols for Risk Assessment
- › 5.2 Identify Key Performance Indicators for Risk Management Effectiveness
- › 5.3 Analyze Data Sources to Enhance Risk Management Practices
- › 5.4 Develop Action Plans Based on Continuous Improvement Feedback
- › 5.5 Engage Stakeholders in the Risk Management Evaluation Process
- › 5.6 Implement a Cycle of Review and Revise for Risk Management Systems

• 1 Understanding Safety Culture in Nuclear Power Plants — 6 classes

- › 1.1 Define Safety Culture in Nuclear Power Plants
- › 1.2 Identify Key Components of a Strong Safety Culture
- › 1.3 Analyze the Impact of Leadership on Safety Culture
- › 1.4 Evaluate Current Safety Culture Practices in Nuclear Facilities
- › 1.5 Develop Strategies to Enhance Safety Culture Leadership
- › 1.6 Create an Action Plan for Safety Culture Improvement

• 2 Leadership Roles in Promoting Safety Culture — 6 classes

- › 2.1 Define and Explain Safety Culture in Nuclear Power
- › 2.2 Identify Leadership Responsibilities in Safety Culture
- › 2.3 Assess Current Safety Culture Practices Within Organizations
- › 2.4 Develop Strategies for Enhancing Safety Leadership
- › 2.5 Implement Effective Communication Techniques for Safety Culture
- › 2.6 Evaluate the Impact of Leadership on Safety Culture Outcomes

• 3 Assessing and Measuring Safety Culture — 6 classes

- › 3.1 Define Safety Culture in Nuclear Power Plants
- › 3.2 Identify Key Indicators of Safety Culture
- › 3.3 Analyze Stakeholder Perspectives on Safety Culture
- › 3.4 Develop Methods for Measuring Safety Culture
- › 3.5 Implement Safety Culture Assessment Tools
- › 3.6 Create Action Plans Based on Safety Culture Evaluation

• 4 Fostering an Inclusive Safety Culture — 6 classes

- › 4.1 Define Inclusive Safety Culture in Nuclear Power Plants
- › 4.2 Identify Key Characteristics of a Positive Safety Culture
- › 4.3 Explore Leadership Roles in Promoting Inclusion
- › 4.4 Assess Barriers to an Inclusive Safety Culture
- › 4.5 Develop Strategies to Enhance Team Engagement
- › 4.6 Implement Action Plans for Sustaining Safety Culture Improvements

• 5 Sustaining and Evolving Safety Culture through Leadership — 6 classes

- › 5.1 Identify Key Elements of a Positive Safety Culture
- › 5.2 Evaluate Leadership Styles Impacting Safety Culture
- › 5.3 Develop Strategies for Effective Safety Communication
- › 5.4 Implement Tools for Measuring Safety Culture Effectiveness
- › 5.5 Design Continuous Improvement Plans for Safety Leadership
- › 5.6 Foster Employee Engagement to Strengthen Safety Culture