

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 22301NUC — Business Continuity for Nuclear Facilities

ISO Certification Programme



LAPT — London Academy of Professional Training

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AT A GLANCE

REFERENCE	ENG-NUC-22301NUC
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Business Continuity Management Framework 5 chapters · 30 classes 85 marks	
• 1 Understanding the Importance of Business Continuity in Nuclear Facilities — 6 classes › 1.1 Define the Concept of Business Continuity in Nuclear Facilities › 1.2 Analyze the Risks Unique to Nuclear Facility Operations › 1.3 Explore Legal and Regulatory Requirements for Business Continuity › 1.4 Identify Key Components of a Business Continuity Management Framework › 1.5 Assess the Impact of Disruptions on Nuclear Facility Operations › 1.6 Develop a Basic Business Continuity Plan for a Nuclear Facility • 2 Key Concepts and Principles of ISO 22301 for Nuclear Energy — 6 classes › 2.1 Identify Key Principles of ISO 22301 in Nuclear Operations › 2.2 Examine the Business Continuity Management Framework Components › 2.3 Analyze the Importance of Risk Assessment in Nuclear Facilities › 2.4 Develop a Business Continuity Strategy for Nuclear Energy › 2.5 Implement Drills and Exercises for Business Continuity Plans › 2.6 Evaluate Continuous Improvement in Business Continuity Practices • 3 Risk Assessment and Business Impact Analysis in Nuclear Context — 6 classes › 3.1 Identify Key Risks in Nuclear Operations › 3.2 Analyze Risk Scenarios for Nuclear Facilities › 3.3 Conduct a Comprehensive Business Impact Analysis › 3.4 Prioritize Risks Based on Impact and Likelihood › 3.5 Develop Risk Mitigation Strategies for Nuclear Context › 3.6 Implement and Review the Business Continuity Plan	• 4 Developing a Business Continuity Plan for Nuclear Facilities — 6 classes › 4.1 Analyze Regulatory Requirements for Nuclear Business Continuity › 4.2 Assess Risks and Vulnerabilities in Nuclear Operations › 4.3 Establish Business Continuity Objectives and Priorities › 4.4 Develop Comprehensive Response Strategies for Nuclear Events › 4.5 Create and Implement a Business Continuity Plan Template › 4.6 Test, Review, and Update the Business Continuity Plan Regularly • 5 Testing, Maintaining, and Continual Improvement of Business Continuity Plans — 6 classes › 5.1 Assess Current Business Continuity Plans for Effectiveness › 5.2 Develop Testing Scenarios for Business Continuity Strategies › 5.3 Implement Tabletop Exercises to Evaluate Response Capabilities › 5.4 Analyze Test Results to Identify Improvement Opportunities › 5.5 Update Business Continuity Plans Based on Feedback and Lessons Learned › 5.6 Establish a Cycle for Ongoing Review and Improvement of Business Continuity Practices

• 1 Understanding Crisis Management in Nuclear Facilities — 6 classes

- › 1.1 Define Key Concepts in Crisis Management
- › 1.2 Identify Types of Crises Affecting Nuclear Facilities
- › 1.3 Analyze the Impact of Crises on Nuclear Operations
- › 1.4 Explore the Crisis Management Framework for Nuclear Facilities
- › 1.5 Develop a Crisis Communication Strategy
- › 1.6 Simulate Crisis Response Scenarios in Nuclear Settings

• 2 Identifying and Assessing Risks in Nuclear Crises — 6 classes

- › 2.1 Define Key Risk Concepts in Nuclear Crisis Management
- › 2.2 Identify Common Risks Faced by Nuclear Facilities
- › 2.3 Analyze the Impact of External Threats on Nuclear Safety
- › 2.4 Evaluate Internal Vulnerabilities within Nuclear Operations
- › 2.5 Develop a Risk Assessment Matrix for Nuclear Crises
- › 2.6 Create Action Plans Based on Risk Assessment Findings

• 3 Crisis Response Planning: Strategies and Frameworks — 6 classes

- › 3.1 Identify Key Components of Crisis Response Planning
- › 3.2 Analyze Crisis Scenarios and Potential Impacts
- › 3.3 Develop Crisis Response Strategies for Nuclear Facilities
- › 3.4 Create an Effective Communication Framework During Crises
- › 3.5 Implement Training and Drills for Crisis Preparedness
- › 3.6 Evaluate and Improve Crisis Response Plans Post-Incident

• 4 Leadership Roles in Crisis Management for Nuclear Facilities — 6 classes

- › 4.1 Identify Key Leadership Roles in Crisis Management
- › 4.2 Understand the Importance of Communication in Crises
- › 4.3 Analyze Decision-Making Processes During Emergencies
- › 4.4 Develop a Crisis Management Leadership Framework
- › 4.5 Coordinate Team Roles and Responsibilities in a Crisis
- › 4.6 Evaluate Leadership Effectiveness in Past Nuclear Crises

• 5 Simulating Crisis Scenarios and Response Evaluations — 6 classes

- › 5.1 Identify Key Components of Crisis Scenarios
- › 5.2 Analyze Potential Crisis Triggers in Nuclear Facilities
- › 5.3 Develop Crisis Response Strategies for Simulated Scenarios
- › 5.4 Execute a Tabletop Simulation of a Crisis Scenario
- › 5.5 Evaluate Team Responses During Crisis Simulations
- › 5.6 Refine Crisis Management Plans Based on Simulation Outcomes

• 1 Understanding Evaluation Metrics for Business Continuity — 6 classes

- › 1.1 Define Key Evaluation Metrics for Business Continuity
- › 1.2 Analyze the Importance of Metrics in Nuclear Facility Operations
- › 1.3 Identify Sources of Data for Evaluation Metrics
- › 1.4 Develop a Framework for Measuring Business Continuity Success
- › 1.5 Implement Continuous Improvement Strategies Based on Metrics
- › 1.6 Create an Action Plan for Ongoing Evaluation and Enhancement

• 2 Conducting Risk Assessments and Identifying Gaps — 6 classes

- › 2.1 Define Risk Assessment Principles for Nuclear Facilities
- › 2.2 Identify Key Risk Factors in Nuclear Operations
- › 2.3 Analyze Current Risk Assessment Methodologies
- › 2.4 Conduct a Practical Risk Assessment Simulation
- › 2.5 Identify Gaps in Existing Risk Management Strategies
- › 2.6 Develop Action Plans for Continuous Improvement in Risk Management

• 3 Developing and Implementing Improvement Strategies — 6 classes

- › 3.1 Assess Current Improvement Practices
- › 3.2 Identify Key Performance Indicators for Improvement
- › 3.3 Develop Targeted Improvement Goals
- › 3.4 Create a Structured Implementation Plan
- › 3.5 Engage Stakeholders for Continuous Improvement
- › 3.6 Evaluate and Revise Improvement Strategies

• 4 Monitoring Performance and Ensuring Compliance — 6 classes

- › 4.1 Define Key Performance Indicators for Business Continuity
- › 4.2 Implement Methods for Monitoring Compliance
- › 4.3 Analyze Data and Performance Metrics Regularly
- › 4.4 Conduct Internal Audits to Assess Compliance
- › 4.5 Identify Areas for Continuous Improvement in Practices
- › 4.6 Develop Action Plans Based on Performance Findings

• 5 Cultivating a Continuous Improvement Culture — 6 classes

- › 5.1 Define Continuous Improvement and Its Importance in Nuclear Safety
- › 5.2 Identify Key Principles of a Continuous Improvement Culture
- › 5.3 Develop Strategies for Encouraging Employee Engagement in Improvement Initiatives
- › 5.4 Implement Feedback Mechanisms to Foster Continuous Improvement
- › 5.5 Analyze Case Studies of Successful Continuous Improvement in Nuclear Facilities
- › 5.6 Create an Action Plan for Sustaining a Continuous Improvement Culture

• 1 Understanding Business Continuity Principles in Nuclear Energy

— 6 classes

- › 1.1 Define Key Business Continuity Concepts in Nuclear Energy
- › 1.2 Identify Regulatory Requirements for Nuclear Facilities
- › 1.3 Assess Risks and Vulnerabilities in Nuclear Operations
- › 1.4 Develop a Business Continuity Strategy for Nuclear Facilities
- › 1.5 Implement Effective Communication Plans in Continuity Procedures
- › 1.6 Evaluate and Test Business Continuity Plans in Nuclear Context

• 2 Risk Assessment and Impact Analysis for Nuclear Facilities — 6

classes

- › 2.1 Identify Key Hazards in Nuclear Facilities
- › 2.2 Analyze Risk Probability and Consequence
- › 2.3 Evaluate Existing Controls and Mitigation Strategies
- › 2.4 Conduct Comprehensive Impact Analysis
- › 2.5 Prioritize Risks and Develop Action Plans
- › 2.6 Implement and Monitor Risk Management Practices

• 3 Developing a Business Continuity Plan for Nuclear Operations —

6 classes

- › 3.1 Identify Key Components of a Business Continuity Plan
- › 3.2 Conduct a Risk Assessment for Nuclear Operations
- › 3.3 Develop Incident Response Strategies for Nuclear Emergencies
- › 3.4 Establish Communication Protocols During Crises
- › 3.5 Create a Business Continuity Plan Template for Nuclear Facilities
- › 3.6 Implement and Test the Business Continuity Plan in Practice

• 4 Validation and Testing of Business Continuity Plans — 6 classes

- › 4.1 Identify Key Components of Business Continuity Plans
- › 4.2 Develop Validation Criteria for Business Continuity Plans
- › 4.3 Implement Scenario-Based Testing for Effective Measurement
- › 4.4 Analyze Test Results to Identify Improvement Areas
- › 4.5 Update Business Continuity Plans Based on Testing Feedback
- › 4.6 Train Staff on Validated Business Continuity Procedures

• 5 Continuous Improvement and Strategic Review of Business Continuity Practices — 6 classes

- › 5.1 Analyze Current Business Continuity Practices
- › 5.2 Identify Key Performance Indicators for Improvement
- › 5.3 Implement Feedback Mechanisms for Continuous Improvement
- › 5.4 Conduct Strategic Reviews of Business Continuity Plans
- › 5.5 Engage Stakeholders in the Review Process
- › 5.6 Develop an Action Plan for Enhancements

• 1 Understanding the Principles of Risk Assessment in Nuclear Facilities — 6 classes

- › 1.1 Define Key Terms in Risk Assessment for Nuclear Facilities
- › 1.2 Identify Types of Risks Specific to Nuclear Operations
- › 1.3 Analyze the Risk Assessment Process in Nuclear Contexts
- › 1.4 Evaluate Risk Mitigation Strategies for Nuclear Facilities
- › 1.5 Apply Risk Assessment Techniques to Real-World Nuclear Scenarios
- › 1.6 Review Case Studies of Risk Assessment Implementation in Nuclear Facilities

• 2 Identifying Risks: Methodologies and Tools for Nuclear Settings

— 6 classes

- › 2.1 Define Key Concepts in Risk Identification for Nuclear Facilities
- › 2.2 Explore Qualitative Risk Assessment Methodologies in Nuclear Settings
- › 2.3 Apply Quantitative Risk Analysis Tools for Nuclear Risks
- › 2.4 Utilize Hazard Identification Techniques in Nuclear Operations
- › 2.5 Assess the Effectiveness of Risk Mitigation Strategies in Nuclear Contexts
- › 2.6 Develop a Comprehensive Risk Management Plan for Nuclear Facilities

• 3 Risk Analysis Techniques: Quantitative and Qualitative Approaches — 6 classes

- › 3.1 Define Key Concepts in Risk Analysis
- › 3.2 Explore Qualitative Risk Assessment Techniques
- › 3.3 Implement Quantitative Risk Analysis Methods
- › 3.4 Compare Qualitative and Quantitative Approaches
- › 3.5 Apply Risk Assessment Techniques to Nuclear Scenarios
- › 3.6 Evaluate the Effectiveness of Chosen Risk Analysis Techniques

• 4 Evaluating Risks: Prioritization and Impact Assessment — 6 classes

- › 4.1 Define Risk Types in Nuclear Facilities
- › 4.2 Identify Potential Threats and Vulnerabilities
- › 4.3 Analyze Likelihood and Consequence of Risks
- › 4.4 Prioritize Risks Using a Risk Matrix Framework
- › 4.5 Assess Impact on Operations and Stakeholders
- › 4.6 Develop Risk Mitigation Strategies and Action Plans

• 5 Developing Risk Mitigation Strategies for Nuclear Facilities — 6 classes

- › 5.1 Identify Key Risks in Nuclear Facilities
- › 5.2 Analyze Vulnerabilities Within Operational Frameworks
- › 5.3 Evaluate Impact of Potential Threats on Operations
- › 5.4 Develop Comprehensive Risk Mitigation Strategies
- › 5.5 Implement Monitoring Systems for Risk Management
- › 5.6 Review and Adapt Risk Mitigation Plans for Continuous Improvement

• 1 Understanding Business Continuity in Nuclear Facilities — 6

classes

- › 1.1 Define Key Concepts of Business Continuity in Nuclear Settings
- › 1.2 Identify Regulatory Frameworks Impacting Nuclear Business Continuity
- › 1.3 Assess Risks and Vulnerabilities in Nuclear Operations
- › 1.4 Develop Continuity Strategies for Disruptions in Nuclear Facilities
- › 1.5 Implement Training and Awareness Programs for Staff Preparedness
- › 1.6 Evaluate and Test Business Continuity Plans for Effectiveness

• 2 ISO 22301: Key Concepts and Requirements — 6 classes

- › 2.1 Identify Key Concepts of ISO 22301
- › 2.2 Explore the Importance of Business Continuity in Nuclear Facilities
- › 2.3 Examine the Requirements of ISO 22301 for Organizational Resilience
- › 2.4 Analyze the Role of Leadership in Implementing ISO 22301
- › 2.5 Assess the Impact of Non-Compliance with ISO 22301 Standards
- › 2.6 Develop a Basic Business Continuity Plan Framework

• 3 Risk Assessment and Business Impact Analysis in Nuclear Contexts — 6 classes

- › 3.1 Identify Key Risks in Nuclear Operations
- › 3.2 Analyze Potential Consequences of Identified Risks
- › 3.3 Evaluate Existing Mitigation Strategies in Nuclear Facilities
- › 3.4 Conduct a Business Impact Analysis for Nuclear Contexts
- › 3.5 Prioritize Risks Based on Impact and Likelihood
- › 3.6 Develop Action Plans for Business Continuity in Nuclear Settings

• 4 Business Continuity Planning and Strategy Development for Nuclear Facilities — 6 classes

- › 4.1 Analyze the Importance of Business Continuity in Nuclear Facilities
- › 4.2 Identify Key Components of a Business Continuity Plan
- › 4.3 Assess Risks and Vulnerabilities in Nuclear Operations
- › 4.4 Develop Effective Business Continuity Strategies for Nuclear Scenarios
- › 4.5 Implement Training Programs for Business Continuity Awareness
- › 4.6 Evaluate and Test Business Continuity Plans in Nuclear Facilities

• 5 Training and Awareness Programs for Nuclear Personnel — 6 classes

- › 5.1 Identify Key Objectives for Training Nuclear Personnel
- › 5.2 Develop Effective Training Modules for Business Continuity
- › 5.3 Implement Simulation Exercises for Emergency Preparedness
- › 5.4 Evaluate Training Effectiveness Through Feedback Mechanisms
- › 5.5 Align Training Programs with ISO 22301 Standards
- › 5.6 Foster a Culture of Continuous Learning in Nuclear Facilities