LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001RNW — Occupational Health and Safety in Renewable Energy Projects

ISO Certification Programme

LAPT — London Academy of Professional Training

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Reference ENG-RNW-45001RNW • ISO Energy

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6	30	180	430	60%	Lifetime
SUBJECTS	CHAPTERS	CLASSES	TOTAL MARKS	PASS MARK	VALIDITY

AT A GLANCE

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

CURRICULUM

1 Compliance and Regulatory Frameworks

5 chapters · 30 classes · **65 marks**

- **1 Understanding ISO 45001: Structure and Key Principles** — 6 classes
  - 1.1 Explore the Structure of ISO 45001
  - 1.2 Identify Key Principles of Occupational Health and Safety
  - 1.3 Analyze the Benefits of Implementing ISO 45001
  - 1.4 Discuss Stakeholder Engagement in Safety Management
  - 1.5 Evaluate Compliance Requirements for Renewable Energy Projects
  - 1.6 Apply ISO 45001 Principles to Real-World Scenarios
- **2 Regulatory Frameworks in the Renewable Energy Sector** — 6 classes
  - 2.1 Identify Key Regulatory Bodies in Renewable Energy
  - 2.2 Understand ISO 45001 Standards for Safety Management
  - 2.3 Analyze Compliance Requirements for Renewable Energy Projects
  - 2.4 Evaluate the Role of Environmental Impact Assessments
  - 2.5 Examine National and International Legislation in Renewable Energy
  - 2.6 Apply Best Practices for Compliance and Safety Management
- **3 Risk Assessment and Compliance Strategies** — 6 classes
  - 3.1 Identify Key Risks in Renewable Energy Projects
  - 3.2 Evaluate Compliance Requirements for ISO 45001
  - 3.3 Develop a Comprehensive Risk Assessment Framework
  - 3.4 Implement Effective Risk Mitigation Strategies
  - 3.5 Integrate Stakeholder Feedback into Compliance Strategies
  - 3.6 Review and Update Risk Management Policies Regularly
- **4 Implementation of Safety Management Systems** — 6 classes
  - 4.1 Define Key Components of Safety Management Systems
  - 4.2 Analyze the Role of ISO 45001 in Renewable Energy Projects
  - 4.3 Identify Stakeholders in Safety Management Implementation
  - 4.4 Develop Procedures for Risk Assessment and Control
  - 4.5 Implement Monitoring and Reporting Mechanisms for Safety
  - 4.6 Evaluate Effectiveness of Safety Management Systems in Practice
- **5 Continuous Improvement and Audit Processes** — 6 classes
  - 5.1 Identify Continuous Improvement Opportunities in OHS Management
  - 5.2 Implement Strategies for Effective Audit Processes
  - 5.3 Analyze Audit Findings to Enhance Health and Safety Practices
  - 5.4 Develop Action Plans Based on Continuous Improvement Insights
  - 5.5 Engage Stakeholders in the Audit and Improvement Process
  - 5.6 Evaluate the Impact of Continuous Improvement on OHS Performance

2 Implementation of Health and Safety Systems

5 chapters · 30 classes **85 marks**

- **1 Understanding ISO 45001: Key Principles and Framework** — 6 classes
  - 1.1 Explore the Purpose of ISO 45001 in Renewable Energy
  - 1.2 Identify Key Terms and Definitions in ISO 45001
  - 1.3 Examine the Structure of the ISO 45001 Standard
  - 1.4 Analyze the Roles and Responsibilities in Health and Safety Management
  - 1.5 Implement Hazard Identification and Risk Assessment Techniques
  - 1.6 Create an Action Plan for ISO 45001 Compliance in Projects
- **2 Risk Assessment and Hazard Identification in Renewable Energy** — 6 classes
  - 2.1 Identify Key Hazards in Renewable Energy Projects
  - 2.2 Evaluate Risk Levels Associated with Identified Hazards
  - 2.3 Implement Control Measures to Mitigate Risks
  - 2.4 Develop a Risk Assessment Matrix for Renewable Energy Sites
  - 2.5 Communicate Risk Assessment Findings to Stakeholders
  - 2.6 Review and Update Risk Assessments for Continuous Improvement
- **3 Developing and Implementing Health and Safety Policies** — 6 classes
  - 3.1 Identify Key Components of Health and Safety Policies
  - 3.2 Evaluate Legal Requirements for Occupational Health and Safety
  - 3.3 Assess Risks in Renewable Energy Projects
  - 3.4 Develop Effective Communication Strategies for Safety Policies
  - 3.5 Create an Implementation Plan for Health and Safety Policies
  - 3.6 Review and Improve Health and Safety Policies through Feedback
- **4 Monitoring, Reporting, and Continuous Improvement** — 6 classes
  - 4.1 Assess Current Health and Safety Monitoring Practices
  - 4.2 Establish Key Performance Indicators for Safety Outcomes
  - 4.3 Develop a Comprehensive Reporting Framework
  - 4.4 Analyze Reporting Data for Safety Insights
  - 4.5 Implement Feedback Mechanisms for Continuous Improvement
  - 4.6 Create an Action Plan for Ongoing Health and Safety Enhancements
- **5 Leadership and Culture in Health and Safety Systems** — 6 classes
  - 5.1 Define Leadership Roles in Health and Safety Systems
  - 5.2 Assess Organizational Culture and Its Impact on Safety
  - 5.3 Identify Key Behaviors of Effective Health and Safety Leaders
  - 5.4 Develop Effective Communication Strategies for Safety Culture
  - 5.5 Create a Framework for Continuous Safety Improvement
  - 5.6 Implement Leadership Strategies for Employee Safety Engagement

3 Introduction to ISO 45001

5 chapters · 30 classes **85 marks**

- **1 Foundations of ISO 45001: Understanding Occupational Health and Safety Standards** — 6 classes
  - 1.1 Define ISO 45001 and Its Importance in Occupational Health and Safety
  - 1.2 Explore the Key Principles of ISO 45001 Standards
  - 1.3 Identify the Core Components of an Effective OH&S Management System
  - 1.4 Analyze the Roles and Responsibilities of Leadership in ISO 45001
  - 1.5 Examine Risk Assessment and Control Measures in Renewable Energy Projects
  - 1.6 Develop an Action Plan for Implementing ISO 45001 in Your Organization
- **2 Key Components of ISO 45001: Framework and Elements** — 6 classes
  - 2.1 Identify the Key Principles of ISO 45001
  - 2.2 Analyze the Structure of the ISO 45001 Standard
  - 2.3 Explore Essential Terms and Definitions in ISO 45001
  - 2.4 Examine the Context of the Organization in ISO 45001
  - 2.5 Assess Leadership and Worker Participation Requirements
  - 2.6 Implement a Strategy for Continuous Improvement in Health and Safety
- **3 Risk Assessment and Management in Renewable Energy Projects** — 6 classes
  - 3.1 Define Key Concepts in Risk Assessment for Renewable Energy Projects
  - 3.2 Identify Common Hazards in Renewable Energy Work Environments
  - 3.3 Analyze Risk Assessment Methodologies Specific to ISO 45001
  - 3.4 Evaluate Current Risk Management Practices in Renewable Energy Sectors
  - 3.5 Develop a Risk Assessment Matrix for a Renewable Energy Project
  - 3.6 Implement Risk Mitigation Strategies Tailored to Renewable Energy Challenges
- **4 Employee Involvement and Leadership in ISO 45001 Implementation** — 6 classes
  - 4.1 Understand the Role of Employee Involvement in ISO 45001
  - 4.2 Explore Leadership Responsibilities for Health and Safety
  - 4.3 Identify Effective Communication Strategies for Engagement
  - 4.4 Foster a Culture of Safety Through Team Collaboration
  - 4.5 Develop an Action Plan to Enhance Employee Participation
  - 4.6 Evaluate the Impact of Leadership on Safety Performance Metrics
- **5 Continuous Improvement and Compliance within ISO 45001 Framework** — 6 classes
  - 5.1 Explore the Principles of Continuous Improvement in ISO 45001
  - 5.2 Identify Key Compliance Requirements of ISO 45001
  - 5.3 Analyze the Role of Leadership in Promoting Continuous Improvement
  - 5.4 Assess the Effectiveness of Safety Management Systems
  - 5.5 Develop Action Plans for Addressing Compliance Gaps
  - 5.6 Implement Strategies for Sustaining Continuous Improvement Efforts

4 Leadership and Communication in Safety Cultures

5 chapters · 30 classes **45 marks**

- **1 Understanding Safety Cultures in Renewable Energy Projects** — 6 classes
  - 1.1 Define Key Concepts of Safety Culture in Renewable Energy
  - 1.2 Identify the Elements of an Effective Safety Culture
  - 1.3 Analyze the Role of Leadership in Promoting Safety
  - 1.4 Assess Communication Strategies for Enhancing Safety Culture
  - 1.5 Evaluate Case Studies of Successful Safety Cultures in Projects
  - 1.6 Develop an Action Plan for Implementing Safety Culture Practices
- **2 The Role of Leadership in Promoting Safety Cultures** — 6 classes
  - 2.1 Define Safety Culture and Its Importance in Leadership
  - 2.2 Identify Key Characteristics of Effective Safety Leaders
  - 2.3 Explore the Impact of Leadership Styles on Safety Culture
  - 2.4 Develop Strategies for Leaders to Enhance Safety Communication
  - 2.5 Analyze Case Studies of Leadership in Safety Culture Success
  - 2.6 Create an Action Plan for Implementing Safety Culture in Teams
- **3 Effective Communication Strategies for Safety Leadership** — 6 classes
  - 3.1 Identify Key Communication Barriers in Safety Leadership
  - 3.2 Develop Active Listening Skills for Enhanced Safety Dialogue
  - 3.3 Utilize Clear Messaging Techniques to Promote Safety Practices
  - 3.4 Explore the Role of Nonverbal Communication in Safety Leadership
  - 3.5 Implement Feedback Mechanisms to Foster a Safety Culture
  - 3.6 Create a Communication Plan for Safety Leadership Engagement
- **4 Creating and Implementing Safety Policies in Renewables** — 6 classes
  - 4.1 Define Key Elements of Safety Policies in Renewable Energy
  - 4.2 Assess Regulatory Requirements for Safety in Renewables
  - 4.3 Engage Stakeholders in Developing Safety Policies
  - 4.4 Draft Effective Safety Policies for Renewable Projects
  - 4.5 Communicate Safety Policies to Team Members Effectively
  - 4.6 Evaluate and Review Safety Policies for Continuous Improvement
- **5 Evaluating Safety Culture and Continuous Improvement** — 6 classes
  - 5.1 Assessing Current Safety Culture in Renewable Energy Projects
  - 5.2 Identifying Key Indicators of a Positive Safety Culture
  - 5.3 Analyzing Employee Feedback on Safety Practices
  - 5.4 Developing Action Plans for Safety Culture Enhancement
  - 5.5 Implementing Continuous Improvement Strategies for Safety
  - 5.6 Measuring the Impact of Changes on Safety Culture

5 Performance Evaluation and Improvement

5 chapters · 30 classes **45 marks**

- **1 Establishing Performance Metrics in Renewable Energy Projects** — 6 classes
  - 1.1 Define Key Performance Indicators (KPIs) for Renewable Energy Projects
  - 1.2 Identify Relevant Metrics for Occupational Health and Safety Compliance
  - 1.3 Develop Data Collection Methods for Performance Evaluation
  - 1.4 Analyze Performance Data to Identify Trends and Areas for Improvement
  - 1.5 Create a Performance Improvement Plan Based on Evaluated Data
  - 1.6 Communicate and Implement Performance Metrics Across Project Teams
- **2 Collecting and Analyzing Performance Data** — 6 classes
  - 2.1 Identify Key Performance Indicators for Renewable Energy Projects
  - 2.2 Collecting Quantitative Data: Techniques and Tools
  - 2.3 Gathering Qualitative Insights from Stakeholder Feedback
  - 2.4 Analyzing Performance Data: Methods for Evaluation
  - 2.5 Interpreting Data Trends for Continuous Improvement
  - 2.6 Developing Action Plans Based on Performance Analysis
- **3 Assessing Compliance with ISO 45001 Standards** — 6 classes
  - 3.1 Identify ISO 45001 Standards Relevant to Renewable Energy Projects
  - 3.2 Evaluate Current Occupational Health and Safety Practices
  - 3.3 Conduct a Gap Analysis Against ISO 45001 Criteria
  - 3.4 Document Evidence of Compliance and Non-Compliance
  - 3.5 Develop an Action Plan for Continuous Improvement
  - 3.6 Implement Performance Monitoring and Review Mechanisms
- **4 Implementing Continuous Improvement Strategies** — 6 classes
  - 4.1 Identify Key Performance Indicators for Safety in Renewable Energy Projects
  - 4.2 Assess Current Performance against ISO 45001 Standards
  - 4.3 Develop Strategies for Engaging Employees in Continuous Improvement
  - 4.4 Implement Data Collection Techniques for Safety Metrics
  - 4.5 Analyze Data to Identify Improvement Opportunities in Safety Practices
  - 4.6 Create an Action Plan for Sustaining Continuous Improvement in Safety
- **5 Engaging Stakeholders in Performance Improvement** — 6 classes
  - 5.1 Identify Key Stakeholders in Renewable Energy Projects
  - 5.2 Analyze Stakeholder Interests and Concerns
  - 5.3 Develop Effective Communication Strategies for Engagement
  - 5.4 Facilitate Stakeholder Workshops for Performance Feedback
  - 5.5 Implement Stakeholder Suggestions in Improvement Plans
  - 5.6 Evaluate Stakeholder Impact on Performance Outcomes

6 Risk Management in Renewable Energy

5 chapters · 30 classes **105 marks**

- **1 Fundamentals of Risk Management in Renewable Energy** — 6 classes
  - 1.1 Identify Key Risks in Renewable Energy Projects
  - 1.2 Analyze the Impact of Risks on Project Outcomes
  - 1.3 Evaluate Risk Assessment Tools and Techniques
  - 1.4 Develop a Risk Management Plan for Renewable Energy
  - 1.5 Implement Risk Mitigation Strategies Effectively
  - 1.6 Review and Adapt Risk Management Practices Continuously
- **2 Identifying and Assessing Risks in Renewable Energy Projects** — 6 classes
  - 2.1 Define Key Risks in Renewable Energy Projects
  - 2.2 Analyze Environmental Factors Impacting Safety
  - 2.3 Identify Internal and External Stakeholder Risks
  - 2.4 Evaluate Historical Incident Data for Risk Trends
  - 2.5 Conduct a SWOT Analysis for Risk Assessment
  - 2.6 Develop Practical Risk Mitigation Strategies
- **3 Strategies for Mitigating Risks in Renewable Energy** — 6 classes
  - 3.1 Identify Key Risks in Renewable Energy Projects
  - 3.2 Analyze Risk Impact and Likelihood in Renewable Energy Context
  - 3.3 Develop Preventive Measures for Common Risks in Renewable Energy
  - 3.4 Implement Control Strategies for Risk Mitigation
  - 3.5 Monitor and Review Risk Management Strategies in Practice
  - 3.6 Apply Risk Communication Techniques to Stakeholders
- **4 Implementing ISO 45001 in Renewable Energy Projects** — 6 classes
  - 4.1 Understand ISO 45001 Requirements for Renewable Energy Projects
  - 4.2 Identify Key Risks Related to Occupational Health and Safety in Renewable Energy
  - 4.3 Develop a Risk Assessment Framework for ISO 45001 Implementation
  - 4.4 Establish Procedures for Incident Reporting and Investigation
  - 4.5 Create an Occupational Health and Safety Policy for Renewable Energy
  - 4.6 Implement Continuous Improvement Strategies to Enhance Health and Safety Practices
- **5 Monitoring and Continuous Improvement of Risk Management Practices** — 6 classes
  - 5.1 Assess Current Risk Management Practices in Renewable Energy
  - 5.2 Identify Key Performance Indicators for Risk Monitoring
  - 5.3 Develop a Continuous Improvement Framework for Risk Management
  - 5.4 Implement Monitoring Tools for Effective Risk Assessment
  - 5.5 Review and Analyze Risk Management Data for Insights
  - 5.6 Engage Stakeholders in the Continuous Improvement Process