

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001FSL — Occupational Health and Safety in Oil Gas and Petrochemical

ISO Certification Programme



LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

Reference ENG-FSL-45001FSL • ISO Energy

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	ENG-FSL-45001FSL
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 Health and Safety Management

5 chapters · 30 classes 65 marks

• 1 Fundamentals of Occupational Health and Safety in Fossil Fuel Industries — 6 classes

› 1.1 Assessing Occupational Hazards in Fossil Fuel Operations

› 1.2 Understanding Regulatory Compliance for Health and Safety in Oil and Gas

› 1.3 Implementing Risk Management Strategies in Petrochemical Industries

› 1.4 Promoting a Safety Culture among Oil and Gas Personnel

› 1.5 Evaluating the Effectiveness of Health and Safety Training Programs

› 1.6 Developing Metrics for Continuous Improvement in Health and Safety Management

• 2 Understanding ISO 45001 Framework in Oil and Gas Operations — 6 classes

› 2.1 Examine Key Components of ISO 45001 Framework

› 2.2 Identify Roles and Responsibilities in Health and Safety Management

› 2.3 Analyze Risk Assessment Procedures in Oil and Gas Operations

› 2.4 Assess Incident Reporting and Investigation Techniques

› 2.5 Develop Strategies for Continuous Improvement in Safety Performance

› 2.6 Implement Action Plans for ISO 45001 Compliance

• 3 Risk Assessment and Control Measures in Petroleum Production — 6 classes

› 3.1 Identify Hazards in Petroleum Production Environments

› 3.2 Conduct Preliminary Risk Assessments for Oil and Gas Operations

› 3.3 Evaluate Risk Levels and Prioritize Safety Concerns

› 3.4 Develop Control Measures for High-Risk Scenarios

› 3.5 Implement Safety Protocols and Monitor Effectiveness

› 3.6 Review and Update Risk Assessments Regularly

• 4 Promoting a Safety Culture in Oil and Gas Organizations — 6 classes

› 4.1 Define Safety Culture and Its Importance in Oil and Gas

› 4.2 Identify Key Elements That Foster a Positive Safety Culture

› 4.3 Assess Current Safety Culture Practices in Your Organization

› 4.4 Develop Strategies for Enhancing Communication Around Safety

› 4.5 Create Action Plans for Engaging Employees in Safety Initiatives

› 4.6 Evaluate the Impact of Safety Culture Improvements on Performance

• 5 Measuring and Enhancing Safety Performance Metrics — 6 classes

› 5.1 Identify Key Safety Performance Indicators

› 5.2 Analyze Current Safety Metrics and Trends

› 5.3 Establish Baseline Safety Performance Levels

› 5.4 Design a Safety Performance Measurement Framework

› 5.5 Implement Continuous Improvement Strategies for Safety Metrics

› 5.6 Evaluate and Adjust Safety Performance Metrics Regularly

• 1 Understanding ISO 45001 Standards: Key Principles and Framework — 6 classes

- › 1.1 Define Key Terms and Concepts in ISO 45001
- › 1.2 Explore the Importance of Occupational Health and Safety Standards
- › 1.3 Identify the Core Principles of ISO 45001 Framework
- › 1.4 Examine the Structure and Clauses of ISO 45001
- › 1.5 Analyze the Benefits of Implementing ISO 45001 in the Workplace
- › 1.6 Develop an Action Plan for ISO 45001 Implementation

• 2 Risk Assessment and Hazard Identification in Fossil Fuels — 6 classes

- › 2.1 Identify Common Hazards in Fossil Fuel Operations
- › 2.2 Analyze Risk Levels Associated with Identified Hazards
- › 2.3 Evaluate Current Risk Assessment Methods in Oil and Gas
- › 2.4 Develop a Framework for Hazard Identification Processes
- › 2.5 Implement Risk Control Measures in the Workplace
- › 2.6 Review and Revise Risk Assessment Procedures Regularly

• 3 Implementing ISO 45001: Developing Procedures and Policies — 6 classes

- › 3.1 Assessing Current Health and Safety Practices in Oil and Gas
- › 3.2 Identifying Key Components of ISO 45001 for Effective Policies
- › 3.3 Developing Risk Assessment Procedures Aligned with ISO 45001
- › 3.4 Crafting Communication Strategies for Health and Safety Policies
- › 3.5 Implementing Training Programs to Promote ISO 45001 Compliance
- › 3.6 Monitoring and Reviewing Procedures for Continuous Improvement

• 4 Monitoring and Measuring Performance: Tools and Techniques — 6 classes

- › 4.1 Understand Key Performance Indicators (KPIs) in ISO 45001
- › 4.2 Identify Tools for Monitoring Occupational Health and Safety
- › 4.3 Implement Techniques for Measuring Safety Performance
- › 4.4 Analyze Data Collection Methods and Their Impact
- › 4.5 Evaluate Performance Against ISO 45001 Standards
- › 4.6 Develop Action Plans Based on Monitoring Results

• 5 Leadership and Culture: Driving OHS Excellence in Organizations — 6 classes

- › 5.1 Define Leadership's Role in OHS Culture
- › 5.2 Identify Key Leadership Behaviors for OHS Success
- › 5.3 Analyze the Impact of Organizational Culture on OHS Performance
- › 5.4 Develop Strategies for Cultivating a Safety-First Mindset
- › 5.5 Evaluate Leadership Styles and Their Effect on OHS Outcomes
- › 5.6 Create an Action Plan to Enhance OHS Leadership Engagement

• 1 Understanding Leadership Styles in Health and Safety Management — 6 classes

- › 1.1 Identify Different Leadership Styles in Health and Safety Management
- › 1.2 Analyze the Impact of Leadership Styles on Workplace Safety Culture
- › 1.3 Assess the Effectiveness of Various Leadership Styles in Crisis Situations
- › 1.4 Develop Communication Strategies That Align with Leadership Styles
- › 1.5 Implement Leadership Styles to Promote Safety Initiatives
- › 1.6 Reflect on Personal Leadership Style and Its Influence on Health and Safety

• 2 Effective Communication Strategies for Safety Leadership — 6 classes

- › 2.1 Identify Key Communication Barriers in Safety Leadership
- › 2.2 Employ Active Listening Techniques for Effective Engagement
- › 2.3 Craft Clear and Concise Safety Messages for Diverse Audiences
- › 2.4 Utilize Visual Aids and Technology to Enhance Safety Communication
- › 2.5 Foster a Culture of Open Communication and Feedback in the Workplace
- › 2.6 Implement Communication Strategies During Safety Crises and Emergencies

• 3 Engaging Stakeholders in Health and Safety Initiatives — 6 classes

- › 3.1 Identify Key Stakeholders in Health and Safety Initiatives
- › 3.2 Assess Stakeholder Needs and Expectations
- › 3.3 Develop Effective Communication Strategies for Stakeholders
- › 3.4 Foster Collaborative Relationships with Stakeholders
- › 3.5 Implement Feedback Mechanisms for Continuous Improvement
- › 3.6 Evaluate the Impact of Stakeholder Engagement on Safety Outcomes

• 4 Crisis Communication and Leadership in Occupational Safety — 6 classes

- › 4.1 Identify Key Principles of Crisis Communication in Occupational Safety
- › 4.2 Analyze Effective Leadership Behaviors During Safety Crises
- › 4.3 Develop a Crisis Communication Plan for Occupational Health and Safety
- › 4.4 Assess the Role of Stakeholder Engagement in Crisis Management
- › 4.5 Implement Scenario-Based Training for Crisis Communication
- › 4.6 Evaluate Real-World Case Studies of Crisis Leadership in Oil and Gas

• 5 Building a Safety-First Culture Through Transformational Leadership — 6 classes

- › 5.1 Define Transformational Leadership Principles in Safety Context
- › 5.2 Identify Key Elements of a Safety-First Culture
- › 5.3 Assess Current Leadership Styles in Health and Safety Practices
- › 5.4 Design Communication Strategies to Promote Safety Engagement
- › 5.5 Evaluate the Impact of Leadership on Employees' Safety Behavior
- › 5.6 Develop an Action Plan for Implementing a Safety-First Leadership Approach

• 1 Understanding Legal Frameworks in Occupational Health and Safety — 6 classes

- › 1.1 Explore Key Laws Impacting Occupational Health and Safety
- › 1.2 Identify Regulatory Bodies and Their Roles in Oil and Gas Sector
- › 1.3 Analyze the Importance of ISO 45001 Standards in Compliance
- › 1.4 Evaluate Responsibilities of Employers Under UK Health and Safety Legislation
- › 1.5 Examine the Process of Risk Assessment in Regulatory Frameworks
- › 1.6 Apply Legal Frameworks to Develop a Safety Management Plan

• 2 ISO 45001: Structure and Requirements — 6 classes

- › 2.1 Explore the Structure of ISO 45001 Standards
- › 2.2 Identify Key Requirements for Occupational Health and Safety Management
- › 2.3 Analyze the Role of Leadership in ISO 45001 Implementation
- › 2.4 Examine Legal and Regulatory Compliance Within ISO 45001 Framework
- › 2.5 Apply Risk Assessment Principles from ISO 45001 in the Workplace
- › 2.6 Develop an Action Plan for Effective Compliance with ISO 45001

• 3 Regulatory Bodies and Compliance Mechanisms — 6 classes

- › 3.1 Identify Key Regulatory Bodies in Occupational Health and Safety
- › 3.2 Analyze the Role of Compliance Mechanisms in Oil and Gas Industry
- › 3.3 Explore the Legal Framework Governing Occupational Health and Safety
- › 3.4 Assess the Impact of Regulatory Compliance on Workplace Safety
- › 3.5 Develop a Compliance Checklist for Operational Procedures
- › 3.6 Evaluate Case Studies on Regulatory Non-Compliance Consequences

• 4 Risk Assessment and Management in Fossil Fuels — 6 classes

- › 4.1 Identify Key Hazards in the Fossil Fuel Industry
- › 4.2 Conduct a Preliminary Risk Assessment for Oil and Gas Operations
- › 4.3 Evaluate the Impact of Current Regulations on Risk Management Practices
- › 4.4 Analyze Case Studies of Risk Mitigation in Petrochemical Projects
- › 4.5 Develop an Action Plan for Implementing Risk Controls in Operations
- › 4.6 Review and Update Risk Assessment Strategies for Continuous Improvement

• 5 Continuous Improvement and Compliance Audits — 6 classes

- › 5.1 Identify Key Principles of Continuous Improvement in Occupational Health and Safety
- › 5.2 Understand the Role of Compliance Audits in Maintaining Safety Standards
- › 5.3 Develop a Framework for Conducting Compliance Audits in Oil and Gas
- › 5.4 Analyze Audit Findings to Drive Continuous Improvement Initiatives
- › 5.5 Create Action Plans Based on Compliance Audit Results
- › 5.6 Evaluate the Effectiveness of Continuous Improvement Strategies in Workplace Safety

• 1 Understanding Performance Measurement in Occupational Health and Safety — 6 classes

- › 1.1 Define Key Performance Indicators for Safety Management
- › 1.2 Analyze Incident Data to Identify Safety Trends
- › 1.3 Implement Safety Audits to Evaluate Performance
- › 1.4 Employ Risk Assessment Techniques for Performance Improvement
- › 1.5 Utilize Feedback Mechanisms to Enhance Safety Culture
- › 1.6 Develop Action Plans Based on Performance Evaluation Results

• 2 Key Performance Indicators (KPIs) for Health and Safety — 6 classes

- › 2.1 Identify Essential KPIs for Occupational Health and Safety
- › 2.2 Analyze Historical Data to Establish Benchmark KPIs
- › 2.3 Develop SMART Criteria for Effective Health and Safety KPIs
- › 2.4 Implement KPI Tracking Tools and Technologies
- › 2.5 Evaluate KPI Performance and Identify Improvement Opportunities
- › 2.6 Communicate KPI Results to Stakeholders Effectively

• 3 Data Collection and Analysis Techniques — 6 classes

- › 3.1 Identify Key Performance Indicators for Safety Measurement
- › 3.2 Explore Qualitative Data Collection Methods in Oil and Gas
- › 3.3 Apply Quantitative Analysis Techniques for Safety Data
- › 3.4 Conduct Comparative Analysis of Safety Performance Metrics
- › 3.5 Utilize Software Tools for Data Visualization in Safety Reporting
- › 3.6 Develop Action Plans Based on Data Evaluation Results

• 4 Integrating Performance Measurement into Health and Safety Management Systems — 6 classes

- › 4.1 Identify Key Performance Indicators for Health and Safety
- › 4.2 Analyze Current Performance Measurement Frameworks
- › 4.3 Develop a Performance Measurement Strategy for H&S Management
- › 4.4 Integrate Performance Metrics into Existing Safety Protocols
- › 4.5 Evaluate the Effectiveness of Performance Measurement Practices
- › 4.6 Create an Action Plan for Continuous Improvement in H&S Metrics

• 5 Continual Improvement through Performance Review and Feedback — 6 classes

- › 5.1 Analyze Performance Metrics for Safety Outcomes
- › 5.2 Identify Key Indicators of Continuous Improvement
- › 5.3 Implement Feedback Mechanisms for Employee Engagement
- › 5.4 Evaluate Performance Review Processes for Effectiveness
- › 5.5 Develop Action Plans Based on Performance Insights
- › 5.6 Foster a Culture of Continuous Improvement in the Workplace

• 1 Understanding Risk Management Frameworks in Oil, Gas, and Petrochemical Industries — 6 classes

- › 1.1 Define Key Concepts in Risk Management for Oil, Gas, and Petrochemical Industries
- › 1.2 Explore the Importance of Safety Culture in Risk Management Frameworks
- › 1.3 Identify Common Risks and Hazards in Oil and Gas Operations
- › 1.4 Analyze Existing Risk Management Frameworks and Their Effectiveness
- › 1.5 Develop Strategies for Enhancing Safety Culture in Risk Management Practices
- › 1.6 Implement a Risk Management Framework Tailored to Oil, Gas, and Petrochemical Operations

• 2 Identifying and Assessing Occupational Risks in Fossil Fuel Operations — 6 classes

- › 2.1 Define and Explain Occupational Risks in Fossil Fuel Operations
- › 2.2 Identify Common Hazards in Oil, Gas, and Petrochemical Industries
- › 2.3 Assess the Impact of Occupational Risks on Worker Safety
- › 2.4 Evaluate Existing Risk Assessment Methods in the Sector
- › 2.5 Develop a Risk Assessment Framework for Fossil Fuel Operations
- › 2.6 Implement Strategies for Enhancing Safety Culture in the Workplace

• 3 Implementing ISO 45001 Standards for Health and Safety Management — 6 classes

- › 3.1 Understand ISO 45001 Standards for Effective Health and Safety Management
- › 3.2 Identify and Assess Workplace Hazards and Risks
- › 3.3 Develop an Effective Health and Safety Policy in Compliance with ISO 45001
- › 3.4 Engage Employees in Creating a Positive Safety Culture
- › 3.5 Implement Risk Control Measures and Verify Their Efficacy
- › 3.6 Conduct an Audit to Evaluate Compliance with ISO 45001 Standards

• 4 Developing a Safety Culture: Principles and Practices — 6 classes

- › 4.1 Define Key Concepts of Safety Culture in the Workplace
- › 4.2 Assess Current Safety Culture: Tools and Techniques
- › 4.3 Identify Barriers to Implementing a Strong Safety Culture
- › 4.4 Develop Strategies to Enhance Employee Engagement in Safety
- › 4.5 Analyze Successful Case Studies of Safety Culture Implementation
- › 4.6 Create an Action Plan for Cultivating a Sustainable Safety Culture

• 5 Measuring and Improving Risk Management and Safety Performance — 6 classes

- › 5.1 Define Key Performance Indicators for Safety Management
- › 5.2 Analyze Incident Reporting Trends to Identify Risks
- › 5.3 Assess the Effectiveness of Existing Risk Control Measures
- › 5.4 Develop a Safety Culture Survey to Gather Employee Feedback
- › 5.5 Implement Action Plans Based on Safety Culture Assessment Results
- › 5.6 Review and Improve Risk Management Strategies Using Data