

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001ORM — Occupational Health and Safety in Mining and Metal Processing

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference MTL-ORM-45001ORM • ISO Materials

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AT A GLANCE

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

CURRICULUM

1

Emergency Response Planning

5 chapters · 30 classes 65 marks

• 1 Understanding Emergency Response Fundamentals in Mining and Metal Processing — 6 classes

› 1.1 Define Key Concepts of Emergency Response in Mining

› 1.2 Identify Common Emergency Scenarios in Metal Processing

› 1.3 Analyze Roles and Responsibilities in Emergency Management

› 1.4 Develop Effective Emergency Response Procedures

› 1.5 Assess Risks and Implement Mitigation Strategies

› 1.6 Conduct Simulated Emergency Response Drills

• 2 Identifying Potential Emergencies and Risk Assessments — 6 classes

› 2.1 Analyze Historical Emergency Incidents in Mining

› 2.2 Identify Common Risks in Metal Processing Operations

› 2.3 Conduct a Preliminary Hazard Analysis

› 2.4 Develop Emergency Scenarios Based on Risk Identifications

› 2.5 Evaluate the Effectiveness of Existing Emergency Protocols

› 2.6 Create a Risk Assessment Framework for Future Emergencies

• 3 Developing an Effective Emergency Response Plan — 6 classes

› 3.1 Identify Key Components of an Emergency Response Plan

› 3.2 Assess Potential Emergency Scenarios in Mining and Metal Processing

› 3.3 Engage Stakeholders in Emergency Response Planning

› 3.4 Develop Response Protocols for Identified Scenarios

› 3.5 Establish Communication Strategies during Emergencies

› 3.6 Evaluate and Test the Effectiveness of the Emergency Response Plan

• 4 Training and Drills for Emergency Preparedness — 6 classes

› 4.1 Assess Current Emergency Response Protocols

› 4.2 Identify Key Roles in Emergency Response Teams

› 4.3 Develop Tailored Emergency Response Training Modules

› 4.4 Implement Realistic Emergency Drill Scenarios

› 4.5 Evaluate Drill Performance and Response Effectiveness

› 4.6 Revise Emergency Plans Based on Drill Outcomes

• 5 Evaluating and Improving Emergency Response Strategies — 6 classes

› 5.1 Analyze Current Emergency Response Strategies

› 5.2 Identify Key Performance Indicators for Response Evaluation

› 5.3 Conduct Risk Assessments to Enhance Emergency Preparedness

› 5.4 Develop a Framework for Continuous Improvement in Response Planning

› 5.5 Implement Feedback Mechanisms for Response Effectiveness

› 5.6 Simulate Emergency Scenarios to Test and Improve Response Strategies

• 1 Fundamentals of Health and Safety Management Systems in Mining — 6 classes

- › 1.1 Define Key Concepts of Health and Safety Management Systems in Mining
- › 1.2 Identify Legal Requirements for Health and Safety in Mining Operations
- › 1.3 Analyze the Benefits of Effective Health and Safety Management Systems
- › 1.4 Explore Risk Assessment Methods in Mining Environments
- › 1.5 Develop Safety Policies and Procedures for Metal Processing
- › 1.6 Implement and Monitor Health and Safety Initiatives in Mining

• 2 Risk Assessment and Hazard Identification Techniques — 6 classes

- › 2.1 Understand Key Concepts of Risk Assessment in Health and Safety
- › 2.2 Identify Common Hazards in Mining and Metal Processing
- › 2.3 Explore Qualitative Risk Assessment Techniques
- › 2.4 Analyze Quantitative Risk Assessment Methods
- › 2.5 Implement Risk Assessment Strategies in Real-world Scenarios
- › 2.6 Evaluate the Effectiveness of Hazard Identification Techniques

• 3 Legal Framework and Compliance in Occupational Health and Safety — 6 classes

- › 3.1 Explore the Key Legislation Impacting Health and Safety in Mining
- › 3.2 Analyze Roles and Responsibilities Under Legal Frameworks
- › 3.3 Identify Compliance Requirements for Mining and Metal Processing Operations
- › 3.4 Review Best Practices for Documenting Compliance Efforts
- › 3.5 Examine Consequences of Non-Compliance in Occupational Health and Safety
- › 3.6 Develop a Compliance Action Plan for Continuous Improvement

• 4 Implementation Strategies for Effective Safety Culture — 6 classes

- › 4.1 Identify Key Components of a Safety Culture
- › 4.2 Assess Current Safety Culture in Mining Operations
- › 4.3 Develop Strategies for Enhancing Safety Awareness
- › 4.4 Foster Leadership Engagement in Safety Practices
- › 4.5 Implement Training Programs for Safety Improvement
- › 4.6 Evaluate the Effectiveness of Safety Culture Initiatives

• 5 Performance Monitoring and Continuous Improvement in OHSMS — 6 classes

- › 5.1 Analyze Key Performance Indicators for OHSMS Effectiveness
- › 5.2 Establish Baselines for Safety Performance Measurement
- › 5.3 Implement Data Collection Methods for Continuous Monitoring
- › 5.4 Evaluate Trends and Identify Areas for Improvement
- › 5.5 Develop Action Plans Based on Performance Insights
- › 5.6 Foster a Culture of Continuous Improvement in Health and Safety

• 1 Understanding Safety Culture in Mining and Metal Processing — 6 classes

- › 1.1 Define Key Concepts of Safety Culture in Mining
- › 1.2 Identify Factors Influencing Safety Culture in Metal Processing
- › 1.3 Assess Current Safety Culture within Your Organization
- › 1.4 Describe the Role of Leadership in Promoting Safety Culture
- › 1.5 Develop Strategies for Enhancing Safety Culture Practices
- › 1.6 Create an Action Plan for Implementing a Positive Safety Culture

• 2 Leadership Roles in Promoting Safety Standards — 6 classes

- › 2.1 Define Leadership's Role in Safety Culture
- › 2.2 Identify Key Safety Standards Relevant to Mining and Metal Processing
- › 2.3 Analyze Real-World Case Studies of Leadership in Safety
- › 2.4 Develop Effective Communication Strategies for Safety Leadership
- › 2.5 Implement Leadership Initiatives to Foster a Safe Work Environment
- › 2.6 Evaluate Leadership Effectiveness in Promoting Safety Standards

• 3 Evaluating and Assessing Organizational Safety Performance**• 4 Strategies for Implementing Effective Safety Leadership****• 5 Cultivating Continuous Improvement in Safety Practices**

• 1 Understanding Risk Management Principles in Mining Operations

— 6 classes

- › 1.1 Define Core Risk Management Concepts in Mining Operations
- › 1.2 Identify Common Hazards in Mining and Metal Processing
- › 1.3 Assess Risk Levels Using Qualitative and Quantitative Methods
- › 1.4 Implement Risk Control Measures in Mining Activities
- › 1.5 Monitor and Evaluate the Effectiveness of Risk Management Strategies
- › 1.6 Develop a Practical Risk Management Plan for a Mining Scenario

• 2 Identifying Hazards and Assessing Risks in Mining Environments

— 6 classes

- › 2.1 Recognize Common Hazards in Mining Operations
- › 2.2 Analyze the Impact of Hazards on Worker Safety
- › 2.3 Determine Risk Levels Using Hazard Assessment Techniques
- › 2.4 Implement Control Measures for Identified Risks
- › 2.5 Evaluate the Effectiveness of Risk Mitigation Strategies
- › 2.6 Develop an Action Plan for Continuous Risk Assessment

• 3 Implementing Risk Control Measures in Mining Operations — 6

classes

- › 3.1 Identify Common Risks in Mining Operations
- › 3.2 Assess the Impact of Identified Risks
- › 3.3 Develop Effective Risk Control Strategies
- › 3.4 Implement Risk Control Measures in the Field
- › 3.5 Monitor and Review Risk Control Effectiveness
- › 3.6 Communicate Risk Management Practices to Teams

• 4 Monitoring and Reviewing Risk Management Processes — 6

classes

- › 4.1 Identify Key Indicators for Risk Management Processes
- › 4.2 Analyze Current Risk Management Strategies in Mining
- › 4.3 Evaluate the Effectiveness of Existing Monitoring Systems
- › 4.4 Develop a Framework for Regular Risk Reviews
- › 4.5 Implement Continuous Improvement Techniques in Risk Management
- › 4.6 Communicate Findings and Recommendations to Stakeholders

• 5 Developing a Risk Management Culture and Leadership in Mining

— 6 classes

- › 5.1 Analyze the Importance of Risk Management Culture in Mining Operations
- › 5.2 Identify Key Leadership Traits for Fostering a Safety-First Environment
- › 5.3 Evaluate Existing Risk Management Practices in Mining Organizations
- › 5.4 Develop Strategies for Enhancing Communication on Safety Risks
- › 5.5 Implement Training Programs to Cultivate a Safe Work Culture
- › 5.6 Assess the Impact of Leadership on Employee Engagement in Safety Initiatives

• 1 Introduction to ISO 45001: Framework and Principles — 6 classes

- › 1.1 Explore the Origins and Purpose of ISO 45001 Standards
- › 1.2 Analyze the Key Principles of Occupational Health and Safety
- › 1.3 Identify the Structure of ISO 45001 Framework
- › 1.4 Discuss the Importance of Leadership in Safety Management
- › 1.5 Evaluate the Role of Employee Participation in ISO 45001 Implementation
- › 1.6 Apply ISO 45001 Principles to Real-World Mining and Metal Processing Scenarios

• 2 Key Components and Structure of ISO 45001 Standards — 6

classes

- › 2.1 Identify the Purpose and Benefits of ISO 45001 Standards
- › 2.2 Explore the Core Principles of Occupational Health and Safety Management
- › 2.3 Examine the Structure of ISO 45001: Key Clauses and Requirements
- › 2.4 Analyze Risk Assessment Procedures within ISO 45001 Framework
- › 2.5 Discuss Roles and Responsibilities in Implementing ISO 45001 Standards
- › 2.6 Apply Continuous Improvement Processes to ISO 45001 in Mining Operations

• 3 Risk Management and Continuous Improvement in Occupational Health and Safety — 6 classes

- › 3.1 Identify Key Components of ISO 45001 Risk Management Framework
- › 3.2 Assess Hazards and Risks in Mining and Metal Processing Operations
- › 3.3 Analyze Risk Control Measures and Their Effectiveness
- › 3.4 Implement Continuous Improvement Strategies for Health and Safety
- › 3.5 Evaluate Performance Indicators for Occupational Health and Safety
- › 3.6 Develop Action Plans for Emergency Preparedness and Response

• 4 Implementation Strategies for ISO 45001 in Mining Operations — 6

classes

- › 4.1 Assess Current Practices in Mining Operations
- › 4.2 Identify Key Stakeholders for ISO 45001 Implementation
- › 4.3 Develop Action Plans for Compliance with ISO 45001
- › 4.4 Integrate Hazard Identification and Risk Assessment Processes
- › 4.5 Establish Monitoring and Evaluation Mechanisms
- › 4.6 Foster a Safety Culture through Training and Communication

• 5 Audit and Certification Process for ISO 45001 Compliance — 6

classes

- › 5.1 Identify the Key Components of ISO 45001 Audit Process
- › 5.2 Describe the Stages of ISO 45001 Certification
- › 5.3 Evaluate Internal Audit Practices for ISO 45001 Compliance
- › 5.4 Explore Common Non-Conformities in ISO 45001 Audits
- › 5.5 Implement Effective Corrective Actions Post-Audit
- › 5.6 Prepare for Successful ISO 45001 Certification Audit