

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 14001ORM — Environmental Management in Mining and Metals

*ISO Certification Programme*



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### LAPT — London Academy of Professional Training

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**Reference** MTL-ORM-14001ORM • ISO Materials

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

|               |                                                |
|---------------|------------------------------------------------|
| REFERENCE     | MTL-ORM-14001ORM                               |
| AWARD         | Certificate                                    |
| ASSESSMENT    | 430 marks — 258 to pass (60%)                  |
| PREREQUISITES | None                                           |
| VALIDITY      | Lifetime                                       |
| AWARDING BODY | LAPT — London Academy of Professional Training |

CURRICULUM

1

Environmental Management Principles

5 chapters · 30 classes85 marks

• 1 Understanding Environmental Management and ISO 14001ORM Principles — 6 classes

› 1.1 Define Key Concepts of Environmental Management

› 1.2 Explore the Importance of ISO 14001ORM Standards

› 1.3 Identify the Core Principles of ISO 14001ORM

› 1.4 Examine the Benefits of Implementing Environmental Management

› 1.5 Analyze Real-World Applications of ISO 14001ORM in Mining

› 1.6 Develop an Action Plan for Environmental Management Implementation

• 2 Key Environmental Impacts of Mining and Metals Operations — 6 classes

› 2.1 Identify Key Environmental Impacts Associated with Mining Operations

› 2.2 Analyze the Effects of Metal Extraction on Local Ecosystems

› 2.3 Examine Air Quality Concerns from Mining Activities

› 2.4 Assess Water Pollution Risks in Mining and Metals Operations

› 2.5 Explore Soil Degradation and Rehabilitation Strategies

› 2.6 Develop an Action Plan for Mitigating Environmental Impacts

• 3 Legal and Regulatory Frameworks in Environmental Management — 6 classes

› 3.1 Identify Key Environmental Legislation Affecting Mining Operations

› 3.2 Analyze the Role of Regulatory Bodies in Environmental Oversight

› 3.3 Evaluate Compliance Requirements for Environmental Management Systems

› 3.4 Discuss the Impact of Non-Compliance on Mining Operations

› 3.5 Apply Best Practices for Navigating Environmental Permitting Processes

› 3.6 Develop Strategies for Engaging Stakeholders on Environmental Issues

• 4 Implementing ISO 14001ORM: Strategies for Continuous Improvement — 6 classes

› 4.1 Assess Current Environmental Management Practices

› 4.2 Identify Key Areas for Improvement in ISO 14001ORM

› 4.3 Develop Action Plans for Continuous Improvement

› 4.4 Engage Stakeholders in the Improvement Process

› 4.5 Monitor and Measure Progress Towards Goals

› 4.6 Review and Revise Strategies for Sustained Compliance

• 5 Monitoring, Auditing, and Reporting in Environmental Management — 6 classes

› 5.1 Understand the Importance of Monitoring in Environmental Management

› 5.2 Identify Key Indicators for Effective Environmental Auditing

› 5.3 Explore Tools and Techniques for Environmental Monitoring

› 5.4 Conduct a Mock Environmental Audit in Mining Operations

› 5.5 Analyze Reporting Requirements for ISO 14001 Compliance

› 5.6 Develop an Action Plan for Continuous Improvement in Environmental Practices

### • 1 Understanding ISO 14001 Standards in Mining and Metals — 6 classes

- › 1.1 Define ISO 14001 Standards and Their Importance in Mining
- › 1.2 Identify Key Components of ISO 14001 for Effective Environmental Management
- › 1.3 Assess the Role of Leadership in Implementing ISO 14001 Standards
- › 1.4 Analyze the Benefits of ISO 14001 Compliance in the Mining Sector
- › 1.5 Evaluate Case Studies of Successful ISO 14001 Implementation in Mining and Metals
- › 1.6 Develop an Action Plan for Adapting ISO 14001 Standards to Specific Mining Operations

### • 2 Environmental Policy and Planning for Mining Operations — 6 classes

- › 2.1 Define and Understand ISO 14001 Standards in Mining
- › 2.2 Analyze Key Components of Environmental Policy Development
- › 2.3 Identify Stakeholders in Mining Environmental Planning
- › 2.4 Evaluate the Importance of Risk Assessment in Mining Operations
- › 2.5 Create an Action Plan for Implementing Environmental Policies
- › 2.6 Measure and Report Environmental Performance Metrics in Mining

### • 3 Risk Assessment and Management in Mining Environments — 6 classes

- › 3.1 Identify Environmental Risks in Mining Operations
- › 3.2 Analyze the Impact of Identified Risks on Ecosystems
- › 3.3 Evaluate Existing Risk Management Strategies in Mining
- › 3.4 Develop a Comprehensive Risk Assessment Framework
- › 3.5 Implement Mitigation Measures for High-Risk Scenarios
- › 3.6 Monitor and Review Risk Management Practices in Mining

### • 4 Implementation of Environmental Management Systems (EMS) in Mining — 6 classes

- › 4.1 Analyze the Key Components of ISO 14001 Standards in Mining
- › 4.2 Evaluate the Current Environmental Impact of Mining Operations
- › 4.3 Develop an Effective Environmental Policy for Mining Enterprises
- › 4.4 Identify Stakeholder Roles in the EMS Implementation Process
- › 4.5 Construct a Monitoring and Performance Evaluation Plan for EMS
- › 4.6 Implement Continuous Improvement Strategies for Environmental Management

### • 5 Continuous Improvement and Auditing for ISO 14001 Compliance — 6 classes

- › 5.1 Identify Key Components of Continuous Improvement in ISO 14001
- › 5.2 Analyze Current Audit Practices for Environmental Compliance
- › 5.3 Develop an Effective Audit Plan for ISO 14001 Standards
- › 5.4 Implement Feedback Mechanisms to Drive Environmental Performance
- › 5.5 Evaluate Audit Findings and Identify Areas for Improvement
- › 5.6 Create an Action Plan for Sustainable Environmental Management

### • 1 Understanding ISO 14001ORM: Principles of Environmental Management in Mining — 6 classes

- › 1.1 Define Key Concepts of ISO 14001ORM in Mining
- › 1.2 Explore the Importance of Environmental Management in Mining
- › 1.3 Identify Stakeholder Engagement Strategies for Environmental Leadership
- › 1.4 Analyze the Benefits of Implementing ISO 14001ORM Standards
- › 1.5 Develop Action Plans for Continuous Improvement in Environmental Practices
- › 1.6 Evaluate Case Studies of Successful Environmental Management in Mining

### • 2 The Role of Leadership in Environmental Stewardship — 6 classes

- › 2.1 Define Environmental Stewardship in Mining Leadership
- › 2.2 Identify Key Leadership Qualities for Environmental Management
- › 2.3 Analyze Impact of Leadership Decisions on Environmental Performance
- › 2.4 Explore Stakeholder Engagement Strategies for Environmental Initiatives
- › 2.5 Develop Action Plans for Effective Environmental Leadership
- › 2.6 Implement and Evaluate Leadership Practices in Environmental Stewardship

### • 3 Risk Management and Environmental Impact Assessment in Mining Operations — 6 classes

- › 3.1 Identify and Assess Environmental Risks in Mining Operations
- › 3.2 Analyze Regulatory Frameworks for Environmental Impact in Mining
- › 3.3 Develop Risk Mitigation Strategies for Mining Activities
- › 3.4 Conduct Environmental Impact Assessments (EIA) in Mining Projects
- › 3.5 Evaluate the Effectiveness of Environmental Management Plans
- › 3.6 Communicate and Report Environmental Risks to Stakeholders

### • 4 Implementing ISO 14001ORM Strategies for Continuous Improvement — 6 classes

- › 4.1 Analyze Current Environmental Management Practices
- › 4.2 Identify Key Components of ISO 14001ORM Standards
- › 4.3 Develop Strategies for Sustainable Continuous Improvement
- › 4.4 Implement Stakeholder Engagement Techniques
- › 4.5 Monitor and Measure Environmental Performance Indicators
- › 4.6 Evaluate and Adapt ISO 14001ORM Strategies for Future Success

### • 5 Engaging Stakeholders for Sustainable Mining Practices — 6 classes

- › 5.1 Identify Key Stakeholders in Mining Operations
- › 5.2 Map Stakeholder Interests and Concerns
- › 5.3 Develop Effective Communication Strategies for Engagement
- › 5.4 Facilitate Collaborative Workshops with Stakeholders
- › 5.5 Evaluate Stakeholder Feedback for Sustainable Practices
- › 5.6 Create Action Plans Based on Stakeholder Input

### • 1 Understanding Risk in Mining Operations — 6 classes

- › 1.1 Define Risk in the Context of Mining Operations
- › 1.2 Identify Potential Risks in Mining Activities
- › 1.3 Assess the Impact of Risks on Mining Projects
- › 1.4 Explore Risk Mitigation Strategies in Mining
- › 1.5 Discuss Compliance Requirements related to Risk Management
- › 1.6 Develop a Risk Management Plan for a Mining Scenario

### • 2 Identifying and Assessing Environmental Risks — 6 classes

- › 2.1 Define Environmental Risks in Mining and Metals
- › 2.2 Identify Common Sources of Environmental Risks
- › 2.3 Analyze the Impact of Environmental Risks on Operations
- › 2.4 Assess Legal and Regulatory Compliance Requirements
- › 2.5 Develop an Environmental Risk Assessment Framework
- › 2.6 Implement Risk Mitigation Strategies in Practice

### • 3 Regulatory Compliance and Environmental Standards — 6 classes

- › 3.1 Identify Key Regulatory Frameworks in Mining and Metals
- › 3.2 Analyze the Impact of Environmental Standards on Operations
- › 3.3 Assess Risk Factors Associated with Non-Compliance
- › 3.4 Develop a Compliance Checklist for Environmental Regulations
- › 3.5 Implement Strategies for Continuous Improvement in Compliance
- › 3.6 Evaluate Case Studies of Compliance Failures and Lessons Learned

### • 4 Developing Risk Mitigation Strategies — 6 classes

- › 4.1 Identify Key Environmental Risks in Mining and Metals Operations
- › 4.2 Analyze Potential Impacts of Identified Risks
- › 4.3 Develop Tailored Mitigation Strategies for Environmental Risks
- › 4.4 Evaluate the Effectiveness of Risk Mitigation Measures
- › 4.5 Integrate Stakeholder Perspectives into Risk Management Strategies
- › 4.6 Create a Comprehensive Risk Management Action Plan

### • 5 Monitoring, Review, and Continuous Improvement in Risk Management — 6 classes

- › 5.1 Assess Current Risk Monitoring Practices in Mining
- › 5.2 Identify Key Performance Indicators for Risk Management
- › 5.3 Develop a Review Framework for Risk Assessments
- › 5.4 Analyze Data for Continuous Improvement Opportunities
- › 5.5 Implement Feedback Mechanisms for Stakeholder Engagement
- › 5.6 Create an Action Plan for Enhancing Risk Compliance

### • 1 Understanding Stakeholder Identification in Mining and Metals — 6 classes

- › 1.1 Define Key Stakeholders in Mining and Metals
- › 1.2 Analyze the Role of Stakeholders in Environmental Management
- › 1.3 Explore Methods for Identifying Stakeholder Interests
- › 1.4 Assess Stakeholder Influence on Mining Projects
- › 1.5 Map Stakeholder Relationships and Networks
- › 1.6 Develop a Stakeholder Engagement Strategy for Projects

### • 2 Mapping Stakeholder Relationships and Influences — 6 classes

- › 2.1 Identify Key Stakeholders in Mining and Metals
- › 2.2 Analyze Stakeholder Interests and Concerns
- › 2.3 Map Stakeholder Relationships and Influences
- › 2.4 Assess Stakeholder Power Dynamics
- › 2.5 Develop Strategies for Effective Stakeholder Engagement
- › 2.6 Evaluate Stakeholder Engagement Effectiveness

### • 3 Effective Communication Strategies with Stakeholders — 6 classes

- › 3.1 Identify Key Stakeholder Groups in Mining and Metals
- › 3.2 Assess Stakeholder Needs and Expectations
- › 3.3 Develop Core Messaging for Stakeholder Communication
- › 3.4 Choose Appropriate Communication Channels for Engagement
- › 3.5 Implement Feedback Mechanisms to Enhance Communication
- › 3.6 Evaluate the Effectiveness of Stakeholder Communication Strategies

### • 4 Conducting Stakeholder Consultations and Engagement Activities — 6 classes

- › 4.1 Identify Stakeholders in Mining and Metals
- › 4.2 Analyze Stakeholder Interests and Influences
- › 4.3 Develop Effective Consultation Strategies
- › 4.4 Implement Stakeholder Engagement Activities
- › 4.5 Monitor and Evaluate Stakeholder Feedback
- › 4.6 Enhance Continuous Engagement through Communication

### • 5 Evaluating Stakeholder Engagement Outcomes and Continuous Improvement — 6 classes

- › 5.1 Assess Current Stakeholder Engagement Practices
- › 5.2 Identify Key Performance Indicators for Engagement Outcomes
- › 5.3 Analyze Feedback Mechanisms from Stakeholders
- › 5.4 Evaluate the Effectiveness of Stakeholder Communication Strategies
- › 5.5 Develop Action Plans for Continuous Improvement in Engagement
- › 5.6 Implement and Review Strategies for Enhanced Stakeholder Collaboration

**• 1 Introduction to Sustainability in Mining and Metals** — 6 classes

- › 1.1 Define Key Concepts in Sustainability for Mining and Metals
- › 1.2 Explore the Environmental Impact of Mining Activities
- › 1.3 Examine Regulatory Frameworks Supporting Sustainable Practices
- › 1.4 Identify Best Practices for Resource Management in the Industry
- › 1.5 Assess the Role of Stakeholders in Promoting Sustainable Mining
- › 1.6 Develop Action Plans for Implementing Sustainability Initiatives

**• 2 Environmental Impacts of Mining Operations** — 6 classes

- › 2.1 Identify Key Environmental Impacts of Mining Operations
- › 2.2 Analyze the Effects of Soil Erosion in Mining Areas
- › 2.3 Evaluate Water Quality Issues Related to Mining Activities
- › 2.4 Assess the Impact of Air Pollution from Mining Operations
- › 2.5 Examine Strategies for Mitigating Environmental Damage in Mining
- › 2.6 Implement Sustainable Practices to Enhance Mining Operations

**• 3 ISO 14001 Standards and Their Application** — 6 classes

- › 3.1 Define ISO 14001 Standards and Their Importance in Environmental Management
- › 3.2 Identify Key Principles of Environmental Management in Mining and Metals
- › 3.3 Explore the Structure and Requirements of ISO 14001 Standards
- › 3.4 Analyze Real-World Case Studies of ISO 14001 Implementation
- › 3.5 Develop an Action Plan for Compliance with ISO 14001 Standards
- › 3.6 Evaluate the Impact of ISO 14001 on Sustainable Practices in Industries

**• 4 Implementing Sustainable Practices in Mining Sites** — 6 classes

- › 4.1 Assessing Current Environmental Practices in Mining Operations
- › 4.2 Identifying Key Sustainability Challenges in Mining Sites
- › 4.3 Developing a Sustainable Resource Management Plan
- › 4.4 Integrating Renewable Energy Solutions into Mining Practices
- › 4.5 Implementing Waste Reduction Strategies in Mining Sites
- › 4.6 Evaluating the Impact of Sustainability Initiatives on Community Relations

**• 5 Monitoring and Reporting Sustainability Performance** — 6 classes

- › 5.1 Defining Key Performance Indicators for Sustainability in Mining
- › 5.2 Establishing Baseline Data for Environmental Monitoring
- › 5.3 Implementing Data Collection Techniques for Sustainability Metrics
- › 5.4 Analyzing Sustainability Performance Data for Informed Decision Making
- › 5.5 Developing Effective Reporting Practices for Stakeholder Engagement
- › 5.6 Integrating Continuous Improvement Strategies into Sustainability Reporting