

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 45001REa — Occupational Health and Safety in Rare Earth Extraction

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference MTL-REA-45001REa • ISO Materials

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AT A GLANCE

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

CURRICULUM

1

Auditing and Compliance

5 chapters · 30 classes85 marks

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

› 1.1 Define the Key Principles of ISO 45001

› 1.2 Identify the Benefits of Implementing ISO 45001 in Rare Earth Extraction

› 1.3 Explore the Structure of the ISO 45001 Framework

› 1.4 Analyze the Role of Leadership in ISO 45001 Compliance

› 1.5 Develop Effective Communication Strategies for ISO 45001 Implementation

› 1.6 Assess the Impact of ISO 45001 on Occupational Health and Safety Practices

• 2 Risk Assessment in Rare Earth Extraction — 6 classes

› 2.1 Identify Key Risks in Rare Earth Extraction

› 2.2 Analyze Potential Consequences of Identified Risks

› 2.3 Evaluate Existing Control Measures in Place

› 2.4 Prioritize Risks Based on Likelihood and Impact

› 2.5 Develop Action Plans for Mitigating High-Priority Risks

› 2.6 Review and Revise Risk Assessment Processes Regularly

• 3 Auditing Standards and Protocols for ISO 45001 — 6 classes

› 3.1 Analyze Key Components of ISO 45001 Standards

› 3.2 Identify Common Audit Protocols for Occupational Health and Safety

› 3.3 Evaluate Risk Assessment Methods in Audit Processes

› 3.4 Develop an Audit Checklist for ISO 45001 Compliance

› 3.5 Conduct a Mock Audit Using ISO 45001 Standards

› 3.6 Assess Findings and Implement Improvements Post-Audit

• 4 Evaluating Compliance and Performance in Rare Earth Operations — 6 classes

› 4.1 Assess Compliance Requirements for Rare Earth Operations

› 4.2 Identify Key Performance Indicators for Safety and Health

› 4.3 Analyze Risk Management Strategies in Rare Earth Extraction

› 4.4 Conduct Internal Audits: Methodologies and Best Practices

› 4.5 Evaluate Stakeholder Engagement in Compliance Processes

› 4.6 Develop Action Plans for Addressing Compliance Gaps

• 5 Strategies for Continuous Improvement in Occupational Health and Safety — 6 classes

› 5.1 Identify Key Metrics for Occupational Health and Safety Improvement

› 5.2 Analyze Current Health and Safety Practices in Rare Earth Extraction

› 5.3 Implement Risk Assessment Techniques for Continuous Improvement

› 5.4 Develop Action Plans Based on Audit Findings

› 5.5 Engage Team Members in Safety Culture Enhancements

› 5.6 Review and Adapt Strategies for Ongoing Compliance and Improvement

• 1 Understanding Emergency Preparedness in Rare Earth

Extraction — 6 classes

- › 1.1 Define Key Concepts of Emergency Preparedness in Rare Earth Extraction
- › 1.2 Identify Common Emergencies in Rare Earth Extraction Operations
- › 1.3 Evaluate Current Emergency Response Plans for Rare Earth Extraction
- › 1.4 Develop Risk Assessment Strategies for Emergency Scenarios
- › 1.5 Design a Communication Plan for Emergency Response Teams
- › 1.6 Conduct Drills and Simulations for Effective Emergency Preparedness

• 2 Risk Assessment and Hazard Identification in Extraction Sites —

6 classes

- › 2.1 Identify and Categorize Risks in Extraction Processes
- › 2.2 Analyze Hazard Scenarios in Rare Earth Extraction
- › 2.3 Assess the Impact of Hazards on Worker Safety
- › 2.4 Develop Effective Risk Mitigation Strategies
- › 2.5 Implement Hazard Communication Protocols
- › 2.6 Evaluate and Improve Risk Assessment Procedures

• 3 Developing an Emergency Response Plan for Rare Earth

Operations — 6 classes

- › 3.1 Assess Potential Emergencies in Rare Earth Operations
- › 3.2 Identify Key Stakeholders for Emergency Response Planning
- › 3.3 Develop Emergency Response Protocols for Specific Scenarios
- › 3.4 Establish Communication Channels for Emergency Situations
- › 3.5 Train Personnel on Emergency Response Procedures
- › 3.6 Review and Test the Emergency Response Plan Regularly

• 4 Training and Drills for Effective Emergency Response — 6 classes

- › 4.1 Identify Emergency Scenarios in Rare Earth Extraction
- › 4.2 Develop Comprehensive Emergency Response Plans
- › 4.3 Design Effective Training Modules for Emergency Preparedness
- › 4.4 Conduct Mock Drills for Realistic Emergency Response Practice
- › 4.5 Evaluate the Effectiveness of Training and Drills
- › 4.6 Implement Continuous Improvement in Emergency Response Training

• 5 Post-Emergency Review and Continuous Improvement — 6 classes

- › 5.1 Assess Stakeholder Feedback for Post-Emergency Improvement
- › 5.2 Analyze Incident Data to Identify Patterns and Gaps
- › 5.3 Conduct a Root Cause Analysis of Emergency Responses
- › 5.4 Develop Action Plans for Addressing Identified Weaknesses
- › 5.5 Implement Changes and Train Staff on New Procedures
- › 5.6 Establish a Framework for Continuous Evaluation and Updates

• 1 Understanding Health and Safety Legislation in Rare Earth

Extraction — 6 classes

- › 1.1 Identify Key Health and Safety Legislation Relevant to Rare Earth Extraction
- › 1.2 Explain the Objectives and Principles of ISO 45001 in Context
- › 1.3 Assess the Impact of Legal Compliance on Occupational Health and Safety
- › 1.4 Explore Risk Assessment Procedures in Rare Earth Extraction Operations
- › 1.5 Discuss the Role of Leadership in Promoting Health and Safety Standards
- › 1.6 Develop a Plan for Implementing Health and Safety Legislation in the Workplace

• 2 Roles and Responsibilities of Leadership in Occupational Health and Safety — 6 classes

- › 2.1 Define Leadership Responsibilities in Occupational Health and Safety
- › 2.2 Identify Key Legislation Affecting Health and Safety Practices
- › 2.3 Assess the Impact of Leadership on Workplace Safety Culture
- › 2.4 Develop Strategies for Effective Health and Safety Communication
- › 2.5 Evaluate Leadership's Role in Risk Management and Compliance
- › 2.6 Create an Action Plan for Enhancing Leadership in Health and Safety

• 3 Risk Assessment and Management Practices in Rare Earth

Mining — 6 classes

- › 3.1 Identify Key Hazards in Rare Earth Mining Operations
- › 3.2 Evaluate Risk Levels Associated with Identified Hazards
- › 3.3 Implement Control Measures for Minimizing Risks
- › 3.4 Monitor and Review Effectiveness of Risk Management Strategies
- › 3.5 Train Personnel on Risk Assessment Protocols
- › 3.6 Develop an Emergency Response Plan for Mining Incidents

• 4 Implementing Safety Standards and Best Practices in Extraction Sites — 6 classes

- › 4.1 Identify Key Safety Standards for Rare Earth Extraction
- › 4.2 Assess Risks and Hazards in Extraction Environments
- › 4.3 Develop Effective Safety Protocols for Extraction Sites
- › 4.4 Implement Training Programs for Workforce Safety Awareness
- › 4.5 Monitor Compliance and Evaluate Safety Performance
- › 4.6 Promote a Culture of Continuous Improvement in Safety Practices

• 5 Monitoring, Reviewing, and Continuous Improvement of Health and Safety Systems — 6 classes

- › 5.1 Identify Key Indicators for Health and Safety Performance Monitoring
- › 5.2 Implement Effective Data Collection Methods for Safety Metrics
- › 5.3 Analyze Health and Safety Data to Identify Trends and Issues
- › 5.4 Evaluate Current Health and Safety Systems Against ISO 45001 Standards
- › 5.5 Develop Continuous Improvement Strategies for Safety Practices
- › 5.6 Communicate Findings and Engage Teams in Health and Safety Enhancements

• 1 Fundamentals of Health and Safety Leadership in Rare Earth

Extraction — 6 classes

- › 1.1 Define Key Concepts in Health and Safety Leadership
- › 1.2 Identify Legal Requirements for Health and Safety in Rare Earth Extraction
- › 1.3 Analyze the Role of Leadership in Promoting a Safety Culture
- › 1.4 Assess Risks Specific to Rare Earth Extraction Operations
- › 1.5 Develop Strategies for Effective Communication in Health and Safety
- › 1.6 Implement Action Plans for Continuous Improvement in Health and Safety Practices

• 2 Understanding ISO 45001 and its Application in Rare Earth Industries

— 6 classes

- › 2.1 Explore the Fundamentals of ISO 45001 in Occupational Health and Safety
- › 2.2 Analyze Key Components of ISO 45001 Relevant to Rare Earth Extraction
- › 2.3 Identify Leadership Responsibilities Under ISO 45001 Framework
- › 2.4 Evaluate Risk Management Strategies for Health and Safety in Rare Earth Industries
- › 2.5 Implement Effective Communication and Training Practices for ISO 45001 Compliance
- › 2.6 Develop an Action Plan for Integrating ISO 45001 in Rare Earth Operations

• 3 Risk Management Strategies in Rare Earth Operations

— 6 classes

- › 3.1 Identify Key Risks in Rare Earth Extraction
- › 3.2 Assess Impact of Risks on Health and Safety
- › 3.3 Develop Effective Risk Mitigation Strategies
- › 3.4 Implement Monitoring Systems for Risk Management
- › 3.5 Evaluate the Effectiveness of Risk Management Plans
- › 3.6 Foster a Culture of Safety and Continuous Improvement

• 4 Promoting a Safety Culture among Stakeholders

— 6 classes

- › 4.1 Define and Understand Safety Culture in Rare Earth Extraction
- › 4.2 Identify Stakeholders and Their Roles in Promoting Safety
- › 4.3 Analyze the Impact of Leadership on Safety Culture
- › 4.4 Develop Communication Strategies to Engage Stakeholders
- › 4.5 Implement Training Programs to Foster a Safety Mindset
- › 4.6 Evaluate the Effectiveness of Safety Culture Initiatives

• 5 Continuous Improvement and Compliance in Health and Safety Practices

— 6 classes

- › 5.1 Identify Key Principles of Continuous Improvement in Health and Safety
- › 5.2 Analyze Current Health and Safety Practices in Rare Earth Extraction
- › 5.3 Develop Goals for Enhanced Compliance and Safety Performance
- › 5.4 Implement Strategies for Continuous Improvement in Health and Safety
- › 5.5 Evaluate the Effectiveness of Health and Safety Initiatives
- › 5.6 Foster a Culture of Safety Compliance and Continuous Improvement

• 1 Fundamentals of Risk Assessment in Rare Earth Extraction

— 6 classes

- › 1.1 Define Fundamental Concepts of Risk Assessment
- › 1.2 Identify Common Hazards in Rare Earth Extraction
- › 1.3 Evaluate Risk Factors Specific to Rare Earth Operations
- › 1.4 Analyze Risk Assessment Methodologies Used in the Industry
- › 1.5 Develop a Risk Assessment Template for Rare Earth Extraction
- › 1.6 Implement Risk Management Strategies for Safety Improvement

• 2 Identifying Hazards and Risks in Rare Earth Operations

— 6 classes

- › 2.1 Define Hazards Specific to Rare Earth Extraction
- › 2.2 Analyze Risks Associated with Identified Hazards
- › 2.3 Evaluate Potential Impact of Risks on Operations
- › 2.4 Prioritize Risks Based on Severity and Likelihood
- › 2.5 Develop Control Measures to Mitigate Identified Risks
- › 2.6 Implement Monitoring Strategies for Ongoing Risk Management

• 3 Risk Evaluation Techniques for Rare Earth Employees

— 6 classes

- › 3.1 Identify Common Risks in Rare Earth Extraction
- › 3.2 Analyze the Impact of Identified Risks on Employee Safety
- › 3.3 Evaluate Risk Probability Using Quantitative Measures
- › 3.4 Assess Risk Control Strategies for Effective Management
- › 3.5 Develop a Risk Evaluation Matrix for Rare Earth Operations
- › 3.6 Create a Personal Action Plan for Risk Mitigation

• 4 Implementing Control Measures for Risk Mitigation

— 6 classes

- › 4.1 Identify Potential Risks in Rare Earth Extraction
- › 4.2 Evaluate the Severity and Likelihood of Identified Risks
- › 4.3 Prioritize Risks for Effective Control Measure Implementation
- › 4.4 Design Control Measures for Risk Mitigation
- › 4.5 Implement Control Measures in Work Processes
- › 4.6 Monitor and Review the Effectiveness of Control Measures

• 5 Monitoring and Reviewing Risk Management Processes

— 6 classes

- › 5.1 Identify Key Performance Indicators for Risk Management
- › 5.2 Implement a Continuous Monitoring Strategy
- › 5.3 Analyze Incident Reports for Effective Risk Review
- › 5.4 Evaluate the Effectiveness of Existing Control Measures
- › 5.5 Engage Stakeholders in the Risk Management Review Process
- › 5.6 Develop Action Plans Based on Review Findings

• 1 Understanding the Importance of Safety Culture in Rare Earth Extraction — 6 classes

- › 1.1 Define Safety Culture and Its Components in Rare Earth Extraction
- › 1.2 Identify the Key Elements of a Positive Safety Culture
- › 1.3 Assess the Current Safety Culture in Your Workplace
- › 1.4 Analyze the Impact of Safety Culture on Employee Well-being
- › 1.5 Develop Strategies to Enhance Safety Culture in Extraction Operations
- › 1.6 Create an Action Plan for Implementing Safety Culture Improvements

• 2 Identifying and Assessing Workplace Hazards in Rare Earth Industries — 6 classes

- › 2.1 Analyze Common Workplace Hazards in Rare Earth Extraction
- › 2.2 Assess the Impact of Hazards on Worker Health and Safety
- › 2.3 Identify Sources of Chemical and Physical Hazards in Operations
- › 2.4 Evaluate the Effectiveness of Current Safety Measures
- › 2.5 Prioritize Hazards Based on Risk Assessment Findings
- › 2.6 Develop Action Plans to Mitigate Identified Workplace Hazards

• 3 Leadership Strategies for Promoting a Positive Safety Culture — 6 classes

- › 3.1 Identify Key Leadership Traits for Safety Culture
- › 3.2 Develop a Vision for Workplace Safety
- › 3.3 Communicate Safety Expectations Effectively
- › 3.4 Foster Employee Engagement in Safety Practices
- › 3.5 Implement Continuous Improvement Strategies
- › 3.6 Evaluate and Reinforce Safety Leadership Impact

• 4 Developing Communication and Training Plans for Safety Awareness — 6 classes

- › 4.1 Assess Current Communication Strategies for Safety Awareness
- › 4.2 Identify Key Safety Messages for Rare Earth Extraction
- › 4.3 Develop Engaging Training Materials for Safety Protocols
- › 4.4 Implement Effective Communication Channels for Safety Updates
- › 4.5 Evaluate the Impact of Training Programs on Safety Culture
- › 4.6 Foster Continuous Improvement in Safety Communication Processes

• 5 Monitoring, Evaluating, and Improving Safety Culture in Practice — 6 classes

- › 5.1 Identify Key Indicators of Safety Culture in Rare Earth Extraction
- › 5.2 Evaluate Current Safety Practices through Employee Feedback
- › 5.3 Analyze Incident Reports to Determine Safety Culture Trends
- › 5.4 Develop Strategies for Enhancing Communication about Safety
- › 5.5 Implement Continuous Improvement Plans for Safety Culture
- › 5.6 Measure the Impact of Safety Culture Initiatives on Workplace Safety