

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 31000ORM — Risk Management in Mining Operations

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference MTL-ORM-31000ORM • ISO Materials

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AT A GLANCE

REFERENCE	MTL-ORM-31000ORM
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Case Studies in Risk Management

5 chapters · 30 classes 45 marks

• 1 Foundations of Risk Management in Mining Operations — 6 classes

› 1.1 Identify Key Concepts in Risk Management for Mining Operations

› 1.2 Analyze Historical Case Studies of Risk Management Failures

› 1.3 Explore Regulatory Frameworks Affecting Mining Risk Management

› 1.4 Assess Risk Assessment Techniques Used in Mining Operations

› 1.5 Develop Risk Mitigation Strategies for Common Mining Hazards

› 1.6 Create a Risk Management Plan Based on Case Study Insights

• 2 Identifying and Assessing Risks in Mining Scenarios — 6 classes

› 2.1 Explore Risk Identification Techniques in Mining

› 2.2 Analyze Historical Data for Risk Assessment

› 2.3 Assess Environmental Risks in Mining Operations

› 2.4 Evaluate Operational Risks through Scenario Simulation

› 2.5 Integrate Stakeholder Perspectives in Risk Evaluation

› 2.6 Develop a Risk Mitigation Plan for Mining Scenarios

• 3 Strategies for Risk Mitigation in Mining Projects — 6 classes

› 3.1 Identify Key Risk Factors in Mining Projects

› 3.2 Analyze Historical Case Studies of Risk Mitigation

› 3.3 Evaluate Risk Assessment Tools and Techniques

› 3.4 Develop a Risk Mitigation Plan for Mining Operations

› 3.5 Implement Effective Monitoring and Reporting Systems

› 3.6 Review and Adapt Risk Strategies Based on Feedback

• 4 Case Study Analysis: Successful Risk Management Implementation — 6 classes

› 4.1 Analyze Key Components of Successful Risk Management

› 4.2 Evaluate Real-World Case Studies of Mining Operations

› 4.3 Identify Challenges in Risk Management Implementation

› 4.4 Discuss Leadership Roles in Risk Management Success

› 4.5 Assess the Impact of Risk Management on Operational Efficiency

› 4.6 Develop a Practical Risk Management Strategy for Mining

• 5 Evaluating and Reporting Risk Management Outcomes in Mining — 6 classes

› 5.1 Identify Key Risk Management Outcomes in Mining Operations

› 5.2 Analyze Case Studies on Risk Reporting Practices

› 5.3 Evaluate the Effectiveness of Risk Mitigation Strategies

› 5.4 Develop Criteria for Measuring Risk Management Success

› 5.5 Create a Comprehensive Risk Reporting Template

› 5.6 Present Findings on Risk Management Outcomes to Stakeholders

• 1 Understanding the Foundations of Risk Management in Mining — 6 classes

- › 1.1 Define Key Concepts in Risk Management for Mining
- › 1.2 Identify Types of Risks Specific to Mining Operations
- › 1.3 Explore the Importance of Leadership in Risk Management
- › 1.4 Analyze Risk Assessment Techniques Used in Mining
- › 1.5 Evaluate Risk Mitigation Strategies in Mining Leadership
- › 1.6 Develop a Personal Action Plan for Effective Risk Management

• 2 Identifying and Analyzing Risks in Mining Operations — 6 classes

- › 2.1 Define Key Risk Concepts in Mining Operations
- › 2.2 Identify Common Risks Specific to Mining Environments
- › 2.3 Utilize Risk Assessment Tools and Techniques
- › 2.4 Analyze the Impact of Identified Risks on Operations
- › 2.5 Evaluate Risk Mitigation Strategies for Mining
- › 2.6 Develop a Risk Management Action Plan for Mining Operations

• 3 Establishing a Risk Management Framework and Policy — 6 classes

- › 3.1 Define the Principles of Risk Management in Mining Operations
- › 3.2 Identify Key Components of a Risk Management Framework
- › 3.3 Develop a Comprehensive Risk Management Policy
- › 3.4 Assess Stakeholder Roles in Risk Management Implementation
- › 3.5 Establish Procedures for Continuous Risk Monitoring and Review
- › 3.6 Implement Risk Communication Strategies for Leadership Engagement

• 4 Leadership Strategies for Effective Risk Management — 6 classes

- › 4.1 Identify Key Leadership Attributes for Risk Management
- › 4.2 Analyze the Role of Communication in Risk Leadership
- › 4.3 Develop Strategies for Fostering a Risk-Aware Culture
- › 4.4 Implement Decision-Making Frameworks for Risk Scenarios
- › 4.5 Evaluate Leadership Styles That Enhance Risk Management
- › 4.6 Create Action Plans for Continuous Risk Management Improvement

• 5 Continuous Improvement in Risk Management Practices — 6 classes

- › 5.1 Evaluate Current Risk Management Practices
- › 5.2 Identify Areas for Improvement in Risk Processes
- › 5.3 Implement Feedback Loops for Risk Management
- › 5.4 Foster a Culture of Continuous Improvement
- › 5.5 Integrate Technology for Enhanced Risk Monitoring
- › 5.6 Measure and Assess the Impact of Improvements

• 1 Identifying Risks in Mining Operations — 6 classes

- › 1.1 Understand the Types of Risks in Mining Operations
- › 1.2 Analyze the Impact of Environmental Factors on Mining Risks
- › 1.3 Recognize Human Factors Contributing to Risks in Mining
- › 1.4 Identify Technological Risks Associated with Mining Operations
- › 1.5 Evaluate Regulatory Compliance Risks in the Mining Sector
- › 1.6 Develop a Framework for Risk Assessment in Mining Operations

• 2 Assessing Risk Impact and Probability — 6 classes

- › 2.1 Identify Key Risk Factors in Mining Operations
- › 2.2 Evaluate the Probability of Risk Events Occurring
- › 2.3 Analyze the Potential Impact of Risks on Operations
- › 2.4 Develop Risk Scenarios for Mining Contexts
- › 2.5 Prioritize Risks Based on Impact and Probability Analysis
- › 2.6 Implement Mitigation Strategies for High-Priority Risks

• 3 Developing Mitigation Strategies and Plans — 6 classes

- › 3.1 Identify Key Risks in Mining Operations
- › 3.2 Analyze Impact of Risks on Operations
- › 3.3 Develop Effective Risk Mitigation Techniques
- › 3.4 Create Comprehensive Mitigation Plans
- › 3.5 Implement Mitigation Strategies in Mining Practices
- › 3.6 Evaluate the Effectiveness of Mitigation Plans

• 4 Implementing Mitigation Measures in Mining Operations — 6 classes

- › 4.1 Identify Key Risks in Mining Operations
- › 4.2 Assess the Impact of Identified Risks
- › 4.3 Develop Targeted Mitigation Strategies
- › 4.4 Implement Effective Control Measures
- › 4.5 Monitor and Review Mitigation Effectiveness
- › 4.6 Communicate Risk Management Strategies to Stakeholders

• 5 Monitoring and Reviewing Mitigation Effectiveness — 6 classes

- › 5.1 Define Key Performance Indicators for Mitigation Strategies
- › 5.2 Develop Methods for Data Collection on Mitigation Effectiveness
- › 5.3 Analyze Collected Data to Identify Trends and Gaps
- › 5.4 Conduct Risk Assessments to Evaluate Mitigation Outcomes
- › 5.5 Discuss Continuous Improvement in Mitigation Strategies
- › 5.6 Create Action Plans Based on Review Findings for Future Mitigation

• 1 Fundamentals of Project Evaluation in Mining Operations — 6 classes

- › 1.1 Define Key Concepts in Project Evaluation for Mining
- › 1.2 Identify Stakeholders and Their Roles in Mining Projects
- › 1.3 Analyze Risk Factors Affecting Mining Project Success
- › 1.4 Evaluate Financial Metrics Used in Mining Project Assessments
- › 1.5 Apply Evaluation Techniques to Real-World Mining Scenarios
- › 1.6 Create a Project Review Plan for Enhanced Mining Operations

• 2 Risk Identification and Assessment in Mining Projects — 6 classes

- › 2.1 Identify Key Risks in Mining Operations
- › 2.2 Analyze Potential Risk Impacts on Projects
- › 2.3 Evaluate Risk Likelihood and Severity
- › 2.4 Prioritize Risks for Effective Management
- › 2.5 Develop Risk Mitigation Strategies
- › 2.6 Review and Update Risk Assessment Processes

• 3 Financial Analysis Techniques for Mining Projects — 6 classes

- › 3.1 Identify Key Financial Metrics for Mining Projects
- › 3.2 Analyze Capital Expenditure in Mining Operations
- › 3.3 Evaluate Operating Costs and Profitability
- › 3.4 Apply Discounted Cash Flow Analysis for Project Valuation
- › 3.5 Assess Risk and Sensitivity in Financial Projections
- › 3.6 Present Financial Findings and Recommendations for Mining Projects

• 4 Stakeholder Engagement in Project Evaluation — 6 classes

- › 4.1 Identify Key Stakeholders in Mining Projects
- › 4.2 Analyze the Influence of Stakeholders on Project Success
- › 4.3 Develop Stakeholder Engagement Strategies for Evaluation
- › 4.4 Implement Effective Communication Techniques with Stakeholders
- › 4.5 Collect and Analyze Stakeholder Feedback for Project Assessment
- › 4.6 Create a Stakeholder Engagement Plan for Future Projects

• 5 Review and Continuous Improvement in Mining Project Evaluation — 6 classes

- › 5.1 Analyze Current Evaluation Methods in Mining Projects
- › 5.2 Identify Key Performance Indicators for Project Success
- › 5.3 Conduct SWOT Analysis for Continuous Improvement
- › 5.4 Develop Strategies for Enhancing Project Evaluation Practices
- › 5.5 Implement Feedback Mechanisms for Stakeholder Engagement
- › 5.6 Evaluate the Effectiveness of Continuous Improvement Initiatives

• 1 Fundamentals of Risk Assessment in Mining Operations — 6 classes

- › 1.1 Define and Understand Risk in Mining Operations
- › 1.2 Identify Different Types of Risks in Mining Environments
- › 1.3 Analyze Risk Factors Affecting Mining Operations
- › 1.4 Evaluate the Impact of Risks on Mining Safety and Efficiency
- › 1.5 Apply Risk Assessment Techniques in Real Mining Scenarios
- › 1.6 Develop a Practical Risk Management Plan for Mining Operations

• 2 Risk Identification Techniques for Mining Projects — 6 classes

- › 2.1 Define Key Risk Identification Concepts in Mining
- › 2.2 Explore Common Risk Identification Techniques
- › 2.3 Analyze Stakeholder Input for Effective Risk Identification
- › 2.4 Implement Risk Checklists in Mining Operations
- › 2.5 Conduct Brainstorming Sessions to Uncover Hidden Risks
- › 2.6 Create a Risk Register from Identified Risks

• 3 Qualitative Risk Analysis in Mining Environments — 6 classes

- › 3.1 Identify Key Qualitative Risk Analysis Concepts in Mining
- › 3.2 Assess the Impact of Environmental Factors on Mining Risks
- › 3.3 Explore Techniques for Hazard Identification in Mining Contexts
- › 3.4 Apply Risk Matrix Tools to Evaluate Risks in Mining Operations
- › 3.5 Develop Risk Scenarios Based on Qualitative Assessment Outcomes
- › 3.6 Create an Action Plan to Mitigate Identified Risks in Mining

• 4 Quantitative Risk Assessment Methods in Mining — 6 classes

- › 4.1 Define Quantitative Risk Assessment in Mining
- › 4.2 Identify Key Quantitative Risk Assessment Techniques
- › 4.3 Analyze Risk Data Using Statistical Methods
- › 4.4 Evaluate the Impact of Risks through Simulation Models
- › 4.5 Implement Quantitative Assessment Findings in Mining Operations
- › 4.6 Review Case Studies on Successful Quantitative Risk Management

• 5 Developing Risk Mitigation Strategies in Mining Operations — 6 classes

- › 5.1 Identify Key Risks in Mining Operations
- › 5.2 Analyze Risk Impact and Likelihood
- › 5.3 Develop Risk Mitigation Options
- › 5.4 Evaluate and Select Mitigation Strategies
- › 5.5 Create a Risk Mitigation Plan
- › 5.6 Monitor and Review Risk Mitigation Effectiveness

• 1 Foundations of Risk Management in Mining Operations — 6 classes

- › 1.1 Define Risk Management in Mining Operations
- › 1.2 Identify Key Principles of Risk Management
- › 1.3 Analyze Stakeholder Roles in Risk Management
- › 1.4 Examine Common Risks in Mining Operations
- › 1.5 Develop a Basic Risk Assessment Framework
- › 1.6 Create an Action Plan for Risk Mitigation

• 2 Identifying Hazards and Opportunities in Mining Environments —

6 classes

- › 2.1 Analyze Common Hazards in Mining Environments
- › 2.2 Assess the Impact of Hazards on Mining Operations
- › 2.3 Explore Opportunities for Risk Mitigation in Mining
- › 2.4 Utilize Tools for Hazard Identification in Mining Settings
- › 2.5 Develop Strategies to Enhance Safety and Efficiency
- › 2.6 Create a Risk Management Action Plan for Mining Operations

• 3 Risk Assessment Methods for Mining Operations — 6 classes

- › 3.1 Identify Key Risk Factors in Mining Operations
- › 3.2 Analyze Risk Assessment Techniques Used in Mining
- › 3.3 Evaluate the Effectiveness of Qualitative Risk Assessments
- › 3.4 Apply Quantitative Risk Assessment Methods to Mining Scenarios
- › 3.5 Integrate Risk Assessment Findings into Decision Making
- › 3.6 Develop a Comprehensive Risk Management Plan for Mining Operations

• 4 Implementing Risk Mitigation Strategies in Mining Projects — 6 classes

- › 4.1 Identify Key Risks in Mining Operations
- › 4.2 Assess Impact and Likelihood of Identified Risks
- › 4.3 Develop Risk Mitigation Strategies for Mining Projects
- › 4.4 Prioritize Risk Mitigation Actions Based on Resources
- › 4.5 Implement Monitoring and Review Procedures for Risk Strategies
- › 4.6 Evaluate the Effectiveness of Risk Mitigation in Mining Projects

• 5 Monitoring and Reviewing Risk Management Practices in Mining

— 6 classes

- › 5.1 Identify Key Indicators for Risk Management in Mining
- › 5.2 Evaluate Current Risk Management Practices in Mining Operations
- › 5.3 Analyze Data Collection Methods for Risk Assessment
- › 5.4 Develop a Risk Monitoring Framework for Mining Activities
- › 5.5 Implement Continuous Improvement Processes for Risk Management
- › 5.6 Review and Report on Risk Management Outcomes in Mining