

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 9001ORM — Quality Management in Metals Manufacturing

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 MTL-ORM-9001ORM • ISO Materials

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	MTL-ORM-9001ORM
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 Strategies

5 chapters · 30 classes65 marks

• 1 Understanding Continuous Improvement in Metals Manufacturing — 6 classes

› 1.1 Define Continuous Improvement Principles in Metals Manufacturing

› 1.2 Identify Tools and Techniques for Continuous Improvement

› 1.3 Analyze the Role of Leadership in Driving Continuous Improvement

› 1.4 Explore Case Studies of Successful Continuous Improvement in Metals

› 1.5 Develop a Continuous Improvement Plan for Your Organization

› 1.6 Measure and Evaluate the Impact of Continuous Improvement Initiatives

• 2 Key Continuous Improvement Methodologies and Tools — 6 classes

› 2.1 Identify Key Continuous Improvement Methodologies in Manufacturing

› 2.2 Analyze the Role of Lean Manufacturing in Quality Enhancement

› 2.3 Evaluate the Impact of Six Sigma on Process Improvement

› 2.4 Implement Kaizen Practices for Ongoing Enhancement

› 2.5 Utilize DMAIC Framework for Effective Problem Solving

› 2.6 Apply Continuous Improvement Tools in Real-World Scenarios

• 3 Data-Driven Decision Making for Continuous Improvement — 6 classes

› 3.1 Understand Key Data Concepts for Continuous Improvement

› 3.2 Identify Relevant Metrics for Quality in Metals Manufacturing

› 3.3 Collect and Analyze Data Effectively

› 3.4 Apply Statistical Tools to Identify Improvement Opportunities

› 3.5 Develop Action Plans Based on Data Insights

› 3.6 Evaluate the Impact of Data-Driven Decisions on Quality

• 4 Implementing Continuous Improvement Initiatives in Metal Facilities — 6 classes

› 4.1 Analyze Current Processes for Continuous Improvement Opportunities

› 4.2 Introduce Lean Principles in Metal Manufacturing Facilities

› 4.3 Develop Key Performance Indicators for Quality Measurement

› 4.4 Engage Employees in Continuous Improvement Initiatives

› 4.5 Implement Problem-Solving Techniques in Production

› 4.6 Evaluate and Sustain Continuous Improvement Strategies

• 5 Sustaining Continuous Improvement Culture in Manufacturing Organizations — 6 classes

› 5.1 Define the Principles of a Continuous Improvement Culture

› 5.2 Identify Key Strategies for Implementing Continuous Improvement

› 5.3 Assess Organizational Readiness for Cultural Change

› 5.4 Engage Employees in Continuous Improvement Practices

› 5.5 Measure the Impact of Continuous Improvement Initiatives

› 5.6 Develop a Plan to Sustain Continuous Improvement Over Time

• 1 Understanding Statistical Foundations for Quality Control — 6 classes

- › 1.1 Define Key Statistical Concepts for Quality Control
- › 1.2 Analyze Data Types and Their Relevance in Quality Management
- › 1.3 Apply Descriptive Statistics to Quality Control Measures
- › 1.4 Understand Probability Distributions in Quality Analysis
- › 1.5 Evaluate the Role of Control Charts in Quality Control
- › 1.6 Implement Statistical Process Control Techniques for Improvement

• 2 Data Collection Techniques in Metals Manufacturing — 6 classes

- › 2.1 Identify Key Data Types in Metals Manufacturing
- › 2.2 Explore Qualitative vs. Quantitative Data Collection Methods
- › 2.3 Implement Sampling Techniques for Effective Data Gathering
- › 2.4 Utilize Surveys and Questionnaires for Quality Insights
- › 2.5 Analyze the Role of Data Management Systems in Quality Control
- › 2.6 Apply Data Collection Techniques Using Case Studies in Metals Manufacturing

• 3 Analyzing Quality Control Data Using Statistical Software — 6 classes

- › 3.1 Understand Key Statistical Concepts for Quality Control
- › 3.2 Introduce Statistical Software for Data Analysis
- › 3.3 Import Quality Control Data into Statistical Software
- › 3.4 Perform Descriptive Statistics for Quality Analysis
- › 3.5 Utilize Control Charts for Monitoring Quality Trends
- › 3.6 Generate Reports and Interpret Results for Quality Improvement

• 4 Implementing Control Charts for Quality Measurement — 6 classes

- › 4.1 Understand the Purpose of Control Charts in Quality Management
- › 4.2 Identify Types of Control Charts Used in Metals Manufacturing
- › 4.3 Collect and Prepare Data for Control Chart Application
- › 4.4 Construct a Control Chart Using Collected Data
- › 4.5 Analyze Control Chart Results to Identify Variations
- › 4.6 Implement Action Plans Based on Control Chart Insights

• 5 Data-Driven Decision Making for Continuous Improvement — 6 classes

- › 5.1 Identify Key Metrics for Quality Control
- › 5.2 Collect and Analyze Data Using Statistical Tools
- › 5.3 Interpret Data Trends to Spot Improvement Opportunities
- › 5.4 Implement Data-Driven Strategies for Process Enhancement
- › 5.5 Evaluate the Effectiveness of Quality Improvement Initiatives
- › 5.6 Communicate Data Findings to Foster Organizational Change

• 1 Understanding ISO 9001 Standards in Metals Manufacturing — 6 classes

- › 1.1 Define and Explain ISO 9001 Standards in Metals Manufacturing
- › 1.2 Identify Key Principles of Quality Management Systems
- › 1.3 Analyze the Importance of ISO 9001 for Metals Manufacturing
- › 1.4 Explore the Role of Leadership in Implementing ISO 9001
- › 1.5 Assess Common Challenges in ISO 9001 Adoption and Solutions
- › 1.6 Develop an Action Plan for ISO 9001 Implementation in Metals Manufacturing

• 2 Quality Management System Design for Metals Manufacturing — 6 classes

- › 2.1 Analyze the Components of an Effective Quality Management System in Metals Manufacturing
- › 2.2 Identify Key ISO 9001 Standards Relevant to Metals Manufacturing
- › 2.3 Design Quality Objectives Aligned with ISO 9001 Standards
- › 2.4 Develop Quality Control Procedures for Metals Manufacturing Processes
- › 2.5 Implement an Internal Audit Process to Monitor Quality Management Systems
- › 2.6 Evaluate Continuous Improvement Strategies for Quality Management in Metals Manufacturing

• 3 Implementing Quality Processes and Controls — 6 classes

- › 3.1 Define Quality Processes in Metals Manufacturing
- › 3.2 Identify Key Controls for ISO 9001 Compliance
- › 3.3 Establish Metrics for Quality Measurement
- › 3.4 Develop a Quality Process Documentation Strategy
- › 3.5 Implement Continuous Improvement Techniques
- › 3.6 Conduct Quality Audits and Assess Compliance

• 4 Conducting Internal Audits and Management Reviews — 6 classes

- › 4.1 Identify the Purpose and Benefits of Internal Audits in Quality Management
- › 4.2 Understand the ISO 9001 Internal Audit Process and its Requirements
- › 4.3 Develop Effective Audit Checklists for Metals Manufacturing
- › 4.4 Conduct an Internal Audit: Techniques and Best Practices
- › 4.5 Analyze Audit Findings and Prepare Actionable Reports
- › 4.6 Facilitate Management Reviews to Drive Continuous Improvement

• 5 Continuous Improvement and Risk Management in ISO 9001 — 6 classes

- › 5.1 Identify Continuous Improvement Opportunities in ISO 9001
- › 5.2 Analyze the PDCA Cycle in Quality Management
- › 5.3 Evaluate Risk Management Principles in ISO 9001
- › 5.4 Develop Risk Assessment Techniques for Manufacturing
- › 5.5 Implement Effective Improvement Strategies in Metals Manufacturing
- › 5.6 Measure and Analyze Outcomes of Continuous Improvement Initiatives

• 1 Fundamentals of Quality Management in Metals Manufacturing —

6 classes

- › 1.1 Define Quality Management Principles in Metals Manufacturing
- › 1.2 Identify Key Components of a Quality Management System
- › 1.3 Explore ISO 9001 Requirements for Metal Industries
- › 1.4 Analyze the Role of Leadership in Quality Management
- › 1.5 Implement Continuous Improvement Strategies in Production
- › 1.6 Evaluate Quality Assurance Techniques for Metal Products

• 2 Understanding ISO 9001ORM Standards for Continuous Improvement — 6 classes

- › 2.1 Identify Key ISO 9001ORM Principles for Quality Management
- › 2.2 Analyze the Role of Leadership in ISO 9001ORM Implementation
- › 2.3 Explore Tools and Techniques for Continuous Improvement
- › 2.4 Evaluate the Importance of Customer Focus in Quality Management
- › 2.5 Develop a Plan for Implementing ISO 9001ORM Standards
- › 2.6 Measure Success: Assessing the Impact of ISO 9001ORM on Manufacturing Processes

• 3 Leadership and Commitment in Quality Management Systems — 6 classes

- › 3.1 Define Leadership Roles in Quality Management Systems
- › 3.2 Identify Key Principles of Quality Management Commitment
- › 3.3 Explore the Impact of Leadership on Quality Culture
- › 3.4 Investigate Methods for Communicating Quality Objectives
- › 3.5 Assess Leadership Strategies for Quality Improvement
- › 3.6 Develop an Action Plan for Enhancing Leadership Commitment

• 4 Risk Management and Opportunity Identification in Metals Quality — 6 classes

- › 4.1 Identify key risks in metals manufacturing processes
- › 4.2 Analyze the impact of identified risks on quality outcomes
- › 4.3 Evaluate existing risk management strategies in metals production
- › 4.4 Explore opportunity identification techniques for quality improvement
- › 4.5 Develop a risk assessment matrix for metals quality management
- › 4.6 Implement action plans to mitigate risks and leverage opportunities

• 5 Performance Measurement and Analysis in Quality Management — 6 classes

- › 5.1 Define Performance Measurement in Quality Management
- › 5.2 Identify Key Performance Indicators (KPIs) in Metals Manufacturing
- › 5.3 Explore Data Collection Methods for Performance Analysis
- › 5.4 Analyze Performance Data to Identify Trends and Patterns
- › 5.5 Implement Continuous Improvement Strategies Based on Performance Analysis
- › 5.6 Evaluate the Impact of Performance Measurement on Quality Management Outcomes

• 1 Understanding Risk in Metals Manufacturing — 6 classes

- › 1.1 Identify Key Risks in Metals Manufacturing Processes
- › 1.2 Analyze Factors Contributing to Risks in Metal Production
- › 1.3 Evaluate Impact of Risks on Quality Management Systems
- › 1.4 Implement Risk Assessment Techniques in Manufacturing
- › 1.5 Develop Risk Mitigation Strategies for Metals Manufacturing
- › 1.6 Monitor and Review Risk Management Practices in Operations

• 2 Identifying Risks in the Metals Supply Chain — 6 classes

- › 2.1 Define Key Risks in the Metals Supply Chain
- › 2.2 Analyze the Impact of Supply Chain Disruptions
- › 2.3 Identify Stakeholders and Their Role in Risk Management
- › 2.4 Assess Risk Likelihood and Consequences
- › 2.5 Develop Risk Mitigation Strategies for Manufacturing
- › 2.6 Implement and Monitor Risk Management Practices

• 3 Analyzing and Assessing Risks in Production — 6 classes

- › 3.1 Identify Key Risks in Production Processes
- › 3.2 Evaluate the Impact of Identified Risks
- › 3.3 Analyze Risk Probability and Frequency
- › 3.4 Develop Risk Mitigation Strategies
- › 3.5 Implement Risk Control Measures in Manufacturing
- › 3.6 Review and Adapt Risk Management Plans

• 4 Developing Risk Mitigation Strategies — 6 classes

- › 4.1 Identify Key Risks in Metals Manufacturing
- › 4.2 Analyze the Impact of Identified Risks
- › 4.3 Prioritize Risks Based on Severity and Likelihood
- › 4.4 Explore Mitigation Strategies for High-Priority Risks
- › 4.5 Develop an Action Plan for Risk Mitigation
- › 4.6 Implement and Review Risk Mitigation Strategies

• 5 Monitoring and Reviewing Risk Management Practices — 6 classes

- › 5.1 Identify Key Risks in Metals Manufacturing Processes
- › 5.2 Analyze Current Risk Management Practices
- › 5.3 Develop Metrics for Monitoring Risks in Manufacturing
- › 5.4 Implement Continuous Improvement Strategies for Risk Management
- › 5.5 Review and Evaluate the Effectiveness of Risk Controls
- › 5.6 Communicate Risk Management Findings to Stakeholders

• 1 Understanding Quality Culture in Metals Manufacturing — 6 classes

- › 1.1 Define Quality Culture in Metals Manufacturing
- › 1.2 Identify Key Components of a Quality Culture
- › 1.3 Analyze the Impact of Leadership on Quality Culture
- › 1.4 Explore the Role of Team Dynamics in Quality Improvement
- › 1.5 Assess Strategies for Promoting a Quality-Focused Work Environment
- › 1.6 Develop an Action Plan for Enhancing Quality Culture in Your Team

• 2 The Role of Leadership in Promoting Quality Culture — 6 classes

- › 2.1 Define Leadership Qualities that Foster a Quality Culture
- › 2.2 Identify Key Elements of a Quality Culture in Metals Manufacturing
- › 2.3 Analyze the Impact of Leadership Styles on Team Dynamics
- › 2.4 Develop Strategies for Communicating Quality Standards Effectively
- › 2.5 Implement Feedback Mechanisms to Enhance Quality Practices
- › 2.6 Evaluate Case Studies of Successful Quality Culture Initiatives

• 3 Building Effective Teams for Quality Improvement — 6 classes

- › 3.1 Define Key Roles and Responsibilities in Quality Teams
- › 3.2 Identify Characteristics of High-Performing Teams
- › 3.3 Foster Open Communication for Quality Improvement
- › 3.4 Implement Collaborative Problem-Solving Techniques
- › 3.5 Develop a Team Charter for Quality Initiatives
- › 3.6 Evaluate Team Performance and Feedback for Continuous Improvement

• 4 Communication Strategies for Quality Leadership — 6 classes

- › 4.1 Identify Key Communication Principles for Leaders
- › 4.2 Develop Active Listening Skills to Enhance Team Collaboration
- › 4.3 Create Clear and Effective Messaging for Quality Standards
- › 4.4 Utilize Feedback Loops to Foster Continuous Improvement
- › 4.5 Implement Communication Tools for Remote Team Engagement
- › 4.6 Assess the Impact of Communication Strategies on Quality Culture

• 5 Embedding Continuous Improvement in Team Practices — 6 classes

- › 5.1 Identify Key Principles of Continuous Improvement
- › 5.2 Assess Current Team Practices for Improvement Opportunities
- › 5.3 Develop Action Plans to Implement Improvement Initiatives
- › 5.4 Foster a Culture of Feedback and Open Communication
- › 5.5 Monitor and Evaluate the Impact of Improvement Efforts
- › 5.6 Sustain Continuous Improvement Through Team Engagement