

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO AS9110 — Quality Management for Aircraft Maintenance Organisations

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-ARS-AS9110 • ISO Transport

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AT A GLANCE

REFERENCE	TR-ARS-AS9110
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 Techniques 0 chapters85 marks	
2 ISO AS9110 Fundamentals 5 chapters · 30 classes85 marks	• 1 Understanding ISO AS9110: Overview and Purpose — 6 classes › 1.1 Define ISO AS9110 and its Importance in Aircraft Maintenance › 1.2 Explore the Key Objectives of ISO AS9110 Standards › 1.3 Identify Stakeholders Involved in ISO AS9110 Compliance › 1.4 Analyze the Benefits of Implementing ISO AS9110 in Organizations › 1.5 Examine the Structure and Components of ISO AS9110 Documentation › 1.6 Apply ISO AS9110 Principles to Real-World Aircraft Maintenance Scenarios • 2 Key Principles of Quality Management in Aerospace — 6 classes › 2.1 Define Key Terms in Quality Management for Aerospace › 2.2 Explore the Importance of Quality Management in Aircraft Maintenance › 2.3 Identify Core Principles of Quality Management Systems › 2.4 Analyze the Role of Leadership in Quality Management Implementation › 2.5 Assess the Impact of Compliance with ISO AS9110 Standards › 2.6 Develop an Action Plan for Applying Quality Principles in Practice • 3 Scope and Applicability of ISO AS9110 — 6 classes › 3.1 Define the Scope of ISO AS9110 Standards › 3.2 Identify Key Applicability Criteria for Organisations › 3.3 Analyze the Benefits of ISO AS9110 Certification › 3.4 Discuss the Roles of Leadership in Compliance › 3.5 Explore Common Challenges in Implementing ISO AS9110 › 3.6 Develop an Action Plan for Certification Readiness • 4 Implementing an Effective Quality Management System — 6 classes › 4.1 Define Quality Management System Principles for Aircraft Maintenance › 4.2 Identify Key Components of ISO AS9110 Standard › 4.3 Evaluate Existing Quality Processes in Your Organisation › 4.4 Develop Quality Objectives Aligned with Business Goals › 4.5 Implement Quality Management System Procedures Effectively › 4.6 Assess and Improve Quality Management System Performance • 5 Continuous Improvement and Auditing in Aircraft Maintenance — 6 classes › 5.1 Understand the Principles of Continuous Improvement in Aircraft Maintenance › 5.2 Identify Key Quality Management Concepts Applied in ISO AS9110 › 5.3 Explore the Role of Auditing in Continuous Improvement Processes › 5.4 Develop an Audit Checklist for Aircraft Maintenance Standards › 5.5 Analyze Case Studies of Successful Continuous Improvement Initiatives › 5.6 Implement Action Plans Based on Audit Findings for Quality Enhancement
3 ISO Compliance Auditing 0 chapters65 marks	

• 1 Foundations of Leadership in Aerospace Maintenance — 6 classes

- › 1.1 Identify Key Leadership Qualities in Aerospace Maintenance
- › 1.2 Analyze the Role of Communication in Effective Leadership
- › 1.3 Explore Team Dynamics and Their Impact on Maintenance Operations
- › 1.4 Assess Conflict Resolution Strategies within Maintenance Teams
- › 1.5 Implement Leadership Styles for Enhancing Team Performance
- › 1.6 Develop a Personal Leadership Action Plan for Aerospace Maintenance

• 2 Building High-Performing Teams in Aircraft Maintenance**• 3 Communication Strategies for Effective Leadership****• 4 Conflict Resolution and Problem-Solving in Aviation Teams****• 5 Leading Change in Aerospace Maintenance Organisations****• 1 Understanding Operational Efficiency in Aircraft Maintenance** — 6 classes

- › 1.1 Define Operational Efficiency in Aircraft Maintenance
- › 1.2 Identify Key Metrics for Measuring Operational Efficiency
- › 1.3 Analyze Common Challenges to Operational Efficiency
- › 1.4 Explore Lean Principles in Aircraft Maintenance Practices
- › 1.5 Implementing Continuous Improvement Techniques
- › 1.6 Develop an Action Plan for Enhancing Operational Efficiency

• 2 Identifying Key Performance Indicators for Maintenance Operations — 6 classes

- › 2.1 Define Key Performance Indicators (KPIs) for Maintenance Operations
- › 2.2 Assess the Importance of KPIs in Aircraft Maintenance
- › 2.3 Explore Different Types of KPIs Relevant to Maintenance Efficiency
- › 2.4 Develop SMART Criteria for Effective KPIs
- › 2.5 Analyze Real-World Examples of Successful KPI Implementation
- › 2.6 Create a KPI Dashboard for Monitoring Maintenance Performance

• 3 Lean Management Principles Applied to Aircraft Maintenance — 6 classes

- › 3.1 Define Lean Management Principles in Aircraft Maintenance
- › 3.2 Identify Waste in Aircraft Maintenance Processes
- › 3.3 Analyze Value Stream Mapping for Maintenance Activities
- › 3.4 Implement 5S Methodology in Aircraft Maintenance Environments
- › 3.5 Develop Continuous Improvement Strategies for Maintenance Teams
- › 3.6 Evaluate the Impact of Lean Practices on Operational Efficiency

• 4 Implementing Continuous Improvement Strategies — 6 classes

- › 4.1 Identify Key Areas for Continuous Improvement in Aircraft Maintenance
- › 4.2 Analyze Current Processes to Uncover Inefficiencies
- › 4.3 Develop Actionable Improvement Plans for Operational Efficiency
- › 4.4 Engage Team Members in Continuous Improvement Initiatives
- › 4.5 Implement Feedback Mechanisms to Measure Improvement Success
- › 4.6 Sustain Continuous Improvement Through Policy and Practice Integration

• 5 Leveraging Technology for Enhanced Operational Efficiency — 6 classes

- › 5.1 Identify Key Technologies for Operational Efficiency
- › 5.2 Evaluate the Impact of Automation on Maintenance Processes
- › 5.3 Explore Data Analytics for Decision-Making in Aircraft Maintenance
- › 5.4 Implementing Digital Tools for Streamlined Operations
- › 5.5 Assessing Cybersecurity Risks in Technology Integration
- › 5.6 Develop an Action Plan for Technology Adoption in Maintenance Practices

• 1 Understanding Quality Management Principles in Aerospace — 6 classes

- › 1.1 Define Quality Management Principles in Aerospace Settings
- › 1.2 Explore the Importance of Quality in Aircraft Maintenance
- › 1.3 Identify Key Components of ISO AS9110 Standards
- › 1.4 Analyze the Role of Leadership in Quality Management
- › 1.5 Develop Strategies for Implementing Quality Management Practices
- › 1.6 Evaluate the Impact of Quality Management on Operational Efficiency

• 2 The Role of Leadership in Quality Management — 6 classes

- › 2.1 Understand Leadership's Impact on Quality Management
- › 2.2 Identify Key Leadership Qualities for Quality Assurance
- › 2.3 Explore the Role of Leadership in Fostering a Quality Culture
- › 2.4 Examine Leadership Techniques for Effective Quality Communication
- › 2.5 Analyze Case Studies of Effective Leadership in Quality Management
- › 2.6 Develop a Leadership Action Plan for Quality Improvement

• 3 Developing a Quality Management System (QMS) — 6 classes

- › 3.1 Analyze the Components of a Quality Management System
- › 3.2 Define Key Quality Management Principles for Aviation
- › 3.3 Identify Stakeholders and Their Roles in QMS Development
- › 3.4 Develop a QMS Process Map for Aircraft Maintenance
- › 3.5 Establish Quality Objectives and Performance Indicators
- › 3.6 Implement Continuous Improvement Strategies in QMS

• 4 Performance Measurement and Continuous Improvement — 6 classes

- › 4.1 Identify Key Performance Indicators for Aircraft Maintenance
- › 4.2 Analyze Performance Data to Detect Improvement Opportunities
- › 4.3 Implement Root Cause Analysis for Quality Issues
- › 4.4 Develop Action Plans for Continuous Improvement Initiatives
- › 4.5 Evaluate the Effectiveness of Improvement Strategies
- › 4.6 Foster a Culture of Continuous Improvement in the Organization

• 5 Compliance and Risk Management in Aerospace Maintenance — 6 classes

- › 5.1 Define Key Compliance Regulations in Aerospace Maintenance
- › 5.2 Identify Potential Risks in Aircraft Maintenance Operations
- › 5.3 Analyze the Impact of Non-Compliance on Safety and Quality
- › 5.4 Develop a Risk Management Framework for Maintenance Activities
- › 5.5 Implement Strategies for Compliance Monitoring and Reporting
- › 5.6 Evaluate the Effectiveness of Risk Management Practices in Aviation