

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO AS9100 — Quality Management for Aviation Space and Defence

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-ARS-AS9100 • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	TR-ARS-AS9100
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 · 18 classes65 marks	
• 1 Understanding ISO AS9100 Standards and Requirements — 6 classes › 1.1 Define ISO AS9100 Standards and Their Importance › 1.2 Identify Key Components of the ISO AS9100 Framework › 1.3 Explain the Role of Leadership in Quality Management › 1.4 Analyze Compliance Requirements in the Aviation Sector › 1.5 Evaluate the Process of Conducting an ISO AS9100 Audit › 1.6 Apply ISO AS9100 Principles to Real-World Scenarios • 2 Auditing Principles and Methodologies in Aerospace — 6 classes › 2.1 Define Key Auditing Principles in Aerospace Quality Management › 2.2 Identify Different Auditing Methodologies Used in Aerospace › 2.3 Evaluate Compliance Requirements for Aerospace Audits › 2.4 Analyze the Role of Internal vs External Auditors in Aerospace › 2.5 Develop an Effective Audit Plan for Aerospace Organizations › 2.6 Implement Audit Findings to Improve Quality Management Systems • 3 Planning and Conducting Effective Audits — 6 classes › 3.1 Define Key Principles of Effective Auditing › 3.2 Identify Stakeholders and Their Roles in the Audit Process › 3.3 Develop a Comprehensive Audit Plan › 3.4 Utilize Checklists and Tools for Audit Preparation › 3.5 Execute the Audit with Effective Data Collection Techniques › 3.6 Analyze Audit Findings and Prepare Clear Reports	• 4 Identifying Non-conformities and Corrective Actions • 5 Continuous Improvement and Audit Follow-up
2 Continuous Improvement Strategies 0 chapters65 marks	

• 1 Introduction to ISO AS9100 Standards and Their Importance in Aerospace — 6 classes

- › 1.1 Define ISO AS9100 Standards and Their Purpose in Aerospace
- › 1.2 Identify Key Components of the ISO AS9100 Framework
- › 1.3 Explain the Historical Context and Development of ISO AS9100
- › 1.4 Discuss the Importance of Quality Management in Aviation, Space, and Defence
- › 1.5 Analyze the Benefits of ISO AS9100 Certification for Organizations
- › 1.6 Evaluate the Steps for Implementing ISO AS9100 in Your Organization

• 2 Key Principles and Structure of ISO AS9100 — 6 classes

- › 2.1 Identify the Key Principles of ISO AS9100
- › 2.2 Explain the Structure of ISO AS9100 Standards
- › 2.3 Assess the Importance of Quality Management in Aviation, Space, and Defence
- › 2.4 Distinguish Between ISO AS9100 and Other ISO Standards
- › 2.5 Analyze the Impact of Leadership on Quality Management Systems
- › 2.6 Implement Key Principles of ISO AS9100 in Organizational Context

• 3 Quality Management System Requirements of ISO AS9100 — 6 classes

- › 3.1 Understand the Structure and Purpose of ISO AS9100
- › 3.2 Identify Key Quality Management Principles in ISO AS9100
- › 3.3 Explore Documentation Requirements for ISO AS9100 Compliance
- › 3.4 Analyze Process Approach in Quality Management Systems
- › 3.5 Evaluate Roles and Responsibilities in Quality Management Leadership
- › 3.6 Implement Continuous Improvement Strategies in AS9100 Framework

• 4 Implementation Strategies for ISO AS9100 Compliance — 6 classes

- › 4.1 Identify Key ISO AS9100 Requirements
- › 4.2 Assess Current Quality Management Practices
- › 4.3 Develop a Gap Analysis for Compliance
- › 4.4 Create a Tailored Implementation Plan
- › 4.5 Engage Stakeholders in the Implementation Process
- › 4.6 Monitor and Review Compliance and Performance

• 5 Auditing and Continuous Improvement within ISO AS9100 Framework — 6 classes

- › 5.1 Understand the Purpose of Auditing in ISO AS9100
- › 5.2 Identify Key Elements of the Auditing Process
- › 5.3 Explore Types of Audits within ISO AS9100 Framework
- › 5.4 Develop Effective Audit Planning and Preparation Skills
- › 5.5 Implement Techniques for Conducting Productive Audits
- › 5.6 Use Audit Findings to Drive Continuous Improvement

• 1 Understanding ISO AS9100 Standards and Their Importance — 6 classes

- › 1.1 Define ISO AS9100 Standards and Their Scope
- › 1.2 Explain the Structure of Quality Management Systems
- › 1.3 Identify Key Benefits of Implementing ISO AS9100
- › 1.4 Analyze the Role of Leadership in Quality Management
- › 1.5 Assess Risks and Opportunities in Aviation Quality Management
- › 1.6 Develop an Action Plan for ISO AS9100 Implementation

• 2 Establishing a Quality Management System Framework — 6 classes

- › 2.1 Define Key Concepts of Quality Management Systems
- › 2.2 Identify Stakeholders in Quality Management Framework
- › 2.3 Assess Current Quality Management Practices
- › 2.4 Develop Quality Policy and Objectives
- › 2.5 Establish Procedures for Quality Management System
- › 2.6 Create an Implementation Plan for Quality Management System

• 3 Developing Quality Objectives and Policy for Aerospace Sector — 6 classes

- › 3.1 Identify Key Components of Quality Objectives in Aerospace
- › 3.2 Analyze Stakeholder Needs for Effective Quality Policy
- › 3.3 Formulate SMART Quality Objectives for Aerospace Sector
- › 3.4 Develop and Document a Quality Policy for Aerospace Organizations
- › 3.5 Evaluate Quality Objectives Against Industry Standards
- › 3.6 Communicate and Implement Quality Policy Across Teams

• 4 Implementing Quality Management Practices and Procedures — 6 classes

- › 4.1 Define Quality Management Principles in Aviation
- › 4.2 Identify Key Components of Quality Management Systems
- › 4.3 Assess Current Quality Management Practices
- › 4.4 Develop Standard Operating Procedures for Quality Control
- › 4.5 Implement Continuous Improvement Strategies
- › 4.6 Evaluate and Adjust Quality Management Practices

• 5 Monitoring, Measuring, and Continual Improvement in Quality Systems — 6 classes

- › 5.1 Define Key Metrics for Quality Monitoring
- › 5.2 Develop Effective Measurement Systems
- › 5.3 Analyze Data for Quality Improvement Insights
- › 5.4 Implement Continuous Improvement Strategies
- › 5.5 Evaluate the Effectiveness of Quality Improvements
- › 5.6 Create a Quality Improvement Action Plan

• 1 Fundamentals of Risk Management in Aviation — 6 classes

- › 1.1 Define Risk Management Concepts in Aviation
- › 1.2 Identify Key Risk Factors in Aviation Operations
- › 1.3 Assess the Impact of Risk in Aviation Scenarios
- › 1.4 Explore Risk Mitigation Strategies for Aviation
- › 1.5 Understand Regulatory Requirements for Risk Management in Aviation
- › 1.6 Implement a Basic Risk Management Framework in Aviation Projects

• 2 Identifying Risks in Aerospace Operations — 6 classes

- › 2.1 Define Key Risk Concepts in Aerospace Operations
- › 2.2 Identify Common Risks in Aviation Processes
- › 2.3 Analyze Risk Sources in Aerospace Operations
- › 2.4 Evaluate the Impact of Risks on Aviation Safety
- › 2.5 Develop Techniques for Risk Identification
- › 2.6 Apply Risk Identification Methods in Case Studies

• 3 Risk Assessment and Analysis Techniques — 6 classes

- › 3.1 Identify and Categorize Risks in Aviation Context
- › 3.2 Analyze Risk Impact and Likelihood Using Qualitative Methods
- › 3.3 Apply Quantitative Risk Analysis Techniques in Aviation
- › 3.4 Develop Risk Mitigation Strategies and Action Plans
- › 3.5 Implement Risk Monitoring and Review Processes
- › 3.6 Evaluate and Report on Risk Management Effectiveness

• 4 Risk Mitigation Strategies in Aviation — 6 classes

- › 4.1 Identify Risk Factors in Aviation Operations
- › 4.2 Analyze the Impact of Identified Risks
- › 4.3 Develop Risk Mitigation Strategies
- › 4.4 Implement Effective Risk Control Measures
- › 4.5 Monitor and Review Risk Mitigation Efforts
- › 4.6 Communicate Risk Management Policies to Stakeholders

• 5 Monitoring and Reviewing Risks in Flight Operations — 6 classes

- › 5.1 Identify Key Risk Indicators in Flight Operations
- › 5.2 Analyze Historical Data for Risk Assessment
- › 5.3 Develop Effective Monitoring Strategies for Risks
- › 5.4 Implement Risk Review Protocols in Flight Operations
- › 5.5 Assess the Impact of Risk Mitigation Measures
- › 5.6 Communicate Risk Findings to Stakeholders Effectively