

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

Adv Certificate in Safety Management Systems (SMS)

Practitioner Level



LAPT — London Academy of Professional Training

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Reference AV-ASS-P • Aviation Centres

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AT A GLANCE

REFERENCE	AV-ASS-P
AWARD	Certificate
ASSESSMENT	440 marks — 264 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Implementing Corrective Actions

5 chapters · 30 classes65 marks

• 1 Understanding Safety Deficiencies in Aviation — 6 classes

› 1.1 Identifying Common Safety Deficiencies in Aviation

› 1.2 Analyzing Root Causes of Safety Deficiencies

› 1.3 Evaluating Impact of Safety Deficiencies on Operations

› 1.4 Developing Strategies to Address Safety Deficiencies

› 1.5 Implementing Corrective Actions Effectively

› 1.6 Monitoring and Reviewing Corrective Actions

• 2 Risk Assessment and Prioritization Techniques — 6 classes

› 2.1 Understanding Risk: Definitions and Key Concepts

› 2.2 Identifying Hazards: Techniques and Tools

› 2.3 Analyzing Risks: Assessment Methods and Criteria

› 2.4 Prioritizing Risks: Strategies and Frameworks

› 2.5 Implementing Corrective Actions: Planning and Execution

› 2.6 Evaluating Risk Management Outcomes: Monitoring and Review

• 3 Designing Effective Corrective Action Plans — 6 classes

› 3.1 Understanding the Need for Corrective Action Plans

› 3.2 Identifying Root Causes of Safety Incidents

› 3.3 Setting Clear Goals for Corrective Actions

› 3.4 Developing Detailed Action Steps

› 3.5 Allocating Resources and Responsibilities

› 3.6 Evaluating the Effectiveness of Corrective Actions

• 4 Implementing Corrective Actions in the Aviation Environment — 6 classes

› 4.1 Understanding SMS Corrective Actions

› 4.2 Identifying Non-Conformities in Aviation

› 4.3 Analyzing Root Causes in Aviation Incidents

› 4.4 Developing Effective Corrective Action Plans

› 4.5 Implementing and Monitoring Corrective Actions

› 4.6 Evaluating the Effectiveness of Corrective Actions

• 5 Evaluating and Monitoring the Effectiveness of Corrective Actions — 6 classes

› 5.1 Understanding Corrective Action Effectiveness

› 5.2 Identifying Key Performance Indicators for Corrective Actions

› 5.3 Setting Up Monitoring Processes for Corrective Actions

› 5.4 Analyzing Data to Evaluate Corrective Actions

› 5.5 Conducting Effectiveness Reviews of Corrective Actions

› 5.6 Improving Future Corrective Actions Based on Feedback

• 1 Understanding the Principles of Incident Investigation — 6 classes

- › 1.1 Defining Incident Investigation and Its Importance
- › 1.2 Identifying the Steps in an Investigation Process
- › 1.3 Exploring Root Cause Analysis Techniques
- › 1.4 Gathering and Analyzing Evidence Effectively
- › 1.5 Developing Corrective and Preventive Actions
- › 1.6 Communicating Findings and Implementing Changes

• 2 Gathering and Analysing Evidence — 6 classes

- › 2.1 Understanding the Types of Evidence in Incident Investigation
- › 2.2 Techniques for Effective Gathering of Physical Evidence
- › 2.3 Conducting Witness Interviews: Best Practices
- › 2.4 Analyzing Evidence: Identifying Patterns and Root Causes
- › 2.5 Utilizing Technology in Evidence Analysis
- › 2.6 Compiling and Presenting Findings from Evidence Analysis

• 3 Identifying Human Factors in Incident Causation — 6 classes

- › 3.1 Understanding Human Factors in Incident Causation
- › 3.2 Exploring Psychological Influences on Safety
- › 3.3 Investigating Organizational Culture and Its Impact
- › 3.4 Analyzing Human Error: Types and Triggers
- › 3.5 Studying Communication Breakdowns in Incidents
- › 3.6 Applying Human Factors Analysis to Real-life Scenarios

• 4 Applying Root Cause Analysis Techniques — 6 classes

- › 4.1 Understanding the Basics of Root Cause Analysis
- › 4.2 Identifying and Framing the Problem
- › 4.3 Gathering Data for Root Cause Analysis
- › 4.4 Analyzing Data to Discover Root Causes
- › 4.5 Developing Solutions from Root Cause Findings
- › 4.6 Implementing and Monitoring the Solutions

• 5 Formulating Recommendations and Reporting — 6 classes

- › 5.1 Understanding the Role of Recommendations in Incident Resolution
- › 5.2 Gathering Data for Effective Recommendations
- › 5.3 Analyzing Incidents to Develop Actionable Recommendations
- › 5.4 Formulating Targeted Recommendations for Prevention
- › 5.5 Structuring and Writing Clear Incident Reports
- › 5.6 Communicating Findings and Recommendations to Stakeholders

• 1 Understanding Legal Frameworks in Aviation Safety — 6 classes

- › 1.1 Exploring the Basics of Aviation Safety Regulations
- › 1.2 Understanding International Safety Standards
- › 1.3 Analyzing UK Specific Aviation Safety Legislation
- › 1.4 Comparing Global and Local Safety Frameworks
- › 1.5 Applying Legal Requirements in Safety Management Systems
- › 1.6 Evaluating Compliance in Aviation Safety Practices

• 2 Roles and Responsibilities of Safety Management Systems — 6 classes

- › 2.1 Understanding the Basics of Safety Management Systems
- › 2.2 Identifying Key Roles in Safety Management Systems
- › 2.3 Exploring Responsibilities within Safety Management Systems
- › 2.4 Analyzing Regulatory Frameworks for Safety Compliance
- › 2.5 Evaluating Effective Communication in Safety Roles
- › 2.6 Implementing Audit Procedures for SMS Compliance

• 3 Implementing Compliance Strategies in SMS — 6 classes

- › 3.1 Understanding the Role of Safety Management Systems in Compliance
- › 3.2 Identifying Regulatory Requirements for SMS
- › 3.3 Developing an Effective Compliance Strategy
- › 3.4 Integrating Regulatory Guidelines into SMS
- › 3.5 Implementing Monitoring and Evaluation Mechanisms
- › 3.6 Assessing and Adapting Compliance Strategies

• 4 Auditing and Monitoring Compliance in Aviation Operations — 6 classes

- › 4.1 Understanding the Basics of Auditing in Aviation
- › 4.2 Identifying Key Compliance Requirements in Aviation Operations
- › 4.3 Analyzing Safety Management System Frameworks
- › 4.4 Conducting Effective Compliance Audits
- › 4.5 Monitoring and Reporting Compliance Status
- › 4.6 Implementing Continuous Improvement in Safety Compliance

• 5 Managing Non-compliance and Safety Investigations — 6 classes

- › 5.1 Understanding the Impact of Non-compliance on Safety
- › 5.2 Identifying Causes of Non-compliance in Safety Systems
- › 5.3 Developing Strategies to Address Non-compliance
- › 5.4 Conducting Effective Safety Investigations
- › 5.5 Analyzing Investigation Findings for Safety Improvement
- › 5.6 Implementing Safety Mitigations and Monitoring Compliance

• 1 Fundamentals of Risk Management in Aviation — 6 classes

- › 1.1 Understanding the Basics of Risk Management in Aviation
- › 1.2 Identifying Common Hazards in Aviation Operations
- › 1.3 Analyzing the Consequences of Identified Aviation Risks
- › 1.4 Assessing the Likelihood of Aviation Hazards
- › 1.5 Applying Risk Mitigation Strategies in Aviation
- › 1.6 Evaluating the Effectiveness of Safety Management Systems in Aviation

• 2 Hazard Identification Techniques and Tools — 6 classes

- › 2.1 Understanding Key Concepts in Hazard Identification
- › 2.2 Exploring Common Hazard Identification Techniques
- › 2.3 Comparing Qualitative and Quantitative Hazard Assessment
- › 2.4 Applying the Bowtie Method for Hazard Analysis
- › 2.5 Utilizing Checklists and Workplace Inspections
- › 2.6 Implementing Continuous Monitoring for Hazard Identification

• 3 Risk Assessment and Analysis — 6 classes

- › 3.1 Understanding the Fundamentals of Risk Assessment
- › 3.2 Identifying and Categorizing Workplace Hazards
- › 3.3 Analyzing Potential Impacts of Identified Risks
- › 3.4 Exploring Risk Assessment Methodologies
- › 3.5 Applying Risk Control Strategies
- › 3.6 Evaluating the Effectiveness of Risk Management Plans

• 4 Risk Mitigation Strategies in Aviation — 6 classes

- › 4.1 Understanding Risk Mitigation Principles
- › 4.2 Identifying Common Aviation Hazards
- › 4.3 Evaluating Risk Mitigation Techniques
- › 4.4 Implementing Safety Controls in Aviation
- › 4.5 Analyzing Case Studies of Risk Mitigation
- › 4.6 Developing a Risk Mitigation Plan

• 5 Integrating Risk Management into Aviation Safety Programs — 6 classes

- › 5.1 Understanding the Basics of Risk Management in Aviation
- › 5.2 Identifying Hazards and Assessing Risks in Aviation Contexts
- › 5.3 Implementing Risk Assessment Techniques in Safety Programs
- › 5.4 Integrating Risk Management Strategies into Aviation Safety Protocols
- › 5.5 Evaluating the Effectiveness of Risk Control Measures
- › 5.6 Applying Continuous Improvement to Aviation Risk Management

• 1 Introduction to Safety Data and its Role in Aviation — 6 classes

- › 1.1 Understanding Safety Data in Aviation
- › 1.2 Exploring Types of Safety Data
- › 1.3 Collecting and Organizing Safety Data
- › 1.4 Analyzing Safety Data for Trends and Patterns
- › 1.5 Interpreting Safety Data for Risk Assessment
- › 1.6 Applying Safety Data to Improve Aviation Safety

• 2 Tools and Techniques for Safety Data Collection — 6 classes

- › 2.1 Understanding the Importance of Safety Data
- › 2.2 Identifying Key Safety Data Sources
- › 2.3 Collecting Data Using Surveys and Interviews
- › 2.4 Utilizing Technology for Real-Time Data Collection
- › 2.5 Analyzing Safety Data with Statistical Tools
- › 2.6 Interpreting Data to Improve Safety Practices

• 3 Methods for Analyzing Aviation Safety Data — 6 classes

- › 3.1 Understanding Safety Data Types in Aviation
- › 3.2 Collecting and Managing Aviation Safety Data
- › 3.3 Exploring Data Visualization Techniques for Safety Insights
- › 3.4 Analyzing Trends and Patterns in Safety Data
- › 3.5 Utilizing Statistical Methods for Safety Data Interpretation
- › 3.6 Applying Safety Data Analysis to Improve Aviation Safety

• 4 Interpreting Results and Making Safety Improvements — 6 classes

- › 4.1 Understanding Safety Data Contexts
- › 4.2 Analyzing Trends and Patterns
- › 4.3 Identifying Root Causes from Data
- › 4.4 Evaluating Data-driven Safety Actions
- › 4.5 Developing Improvement Strategies
- › 4.6 Implementing and Monitoring Safety Improvements

• 5 Case Studies: Real-World Application of Safety Data Analysis — 6 classes

- › 5.1 Understanding Real-World Contexts for Safety Data
- › 5.2 Identifying Key Safety Data Variables
- › 5.3 Analyzing Safety Incident Case Studies
- › 5.4 Interpreting Trends and Patterns in Safety Data
- › 5.5 Applying Data Insights to Safety Management
- › 5.6 Evaluating the Impact of Data-Driven Safety Decisions

• 1 Understanding Safety Management Systems in Aviation — 6

classes

- › 1.1 Exploring the Basics of Safety Management Systems
- › 1.2 Identifying Key Components in Aviation SMS
- › 1.3 Understanding Regulatory Requirements for SMS
- › 1.4 Monitoring and Reporting Safety Performance Indicators
- › 1.5 Engaging Personnel in a Safety Culture
- › 1.6 Implementing Risk Management Strategies in Aviation

• 2 Regulatory Frameworks and Standards for SMS — 6 classes

- › 2.1 Understanding the Role of Regulatory Bodies in SMS
- › 2.2 Exploring Key International SMS Standards
- › 2.3 Comparing SMS Standards Across Different Industries
- › 2.4 Interpreting Compliance and Legal Requirements for SMS
- › 2.5 Analyzing the Implementation of SMS Standards in Practice
- › 2.6 Evaluating the Impact of SMS Regulatory Frameworks on Safety Outcomes

• 3 Risk Management and Hazard Identification in Aviation — 6 classes

- › 3.1 Understanding Risk Management Principles in Aviation
- › 3.2 Identifying Common Hazards in Aviation Environments
- › 3.3 Analyzing Risk Factors and Their Impacts
- › 3.4 Using Hazard Identification Tools Effectively
- › 3.5 Implementing Risk Mitigation Strategies
- › 3.6 Evaluating the Effectiveness of Safety Measures

• 4 Safety Assurance and Performance Measurement — 6 classes

- › 4.1 Understanding Safety Assurance Concepts
- › 4.2 Identifying Key Performance Indicators in SMS
- › 4.3 Measuring Performance in Safety Management Systems
- › 4.4 Evaluating Safety Performance Through Data Analysis
- › 4.5 Implementing Continuous Improvement in SMS
- › 4.6 Integrating Feedback for Enhanced Safety Assurance

• 5 Safety Promotion and Continuous Improvement — 6 classes

- › 5.1 Understanding the Role of Safety Promotion in SMS
- › 5.2 Identifying Key Elements of Safety Culture
- › 5.3 Exploring Communication Strategies for Safety Awareness
- › 5.4 Implementing Effective Training and Competency Programs
- › 5.5 Utilizing Data for Continuous Safety Improvement
- › 5.6 Evaluating and Enhancing Safety Performance Metrics