LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

Master Certificate in Aviation Risk & Crisis Management

Leadership Level

LAPT — London Academy of Professional Training

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Reference AV-ASS-L • Aviation Centres

UKPRN 10067351 • Registered in England and Wales, company 4984798

6	30	180	430	60%	Lifetime
SUBJECTS	CHAPTERS	CLASSES	TOTAL MARKS	PASS MARK	VALIDITY

AT A GLANCE

REFERENCE	**AV-ASS-L**
AWARD	**Certificate**
ASSESSMENT	**430 marks — 258 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1 Advanced Risk Analysis

5 chapters · 30 classes · **85 marks**

- **1 Risk Fundamentals and Identification in Aviation** — 6 classes
  - 1.1 Understanding the Basics of Risk in Aviation
  - 1.2 Identifying Potential Risks in Aviation Operations
  - 1.3 Analyzing Historical Data to Assess Aviation Risks
  - 1.4 Evaluating Risk Factors in Different Aviation Scenarios
  - 1.5 Applying Risk Assessment Techniques in Aviation
  - 1.6 Crafting Risk Mitigation Strategies for Aviation Safety
- **2 Quantitative and Qualitative Risk Assessment Techniques** — 6 classes
  - 2.1 Understanding Quantitative Risk Assessment Fundamentals
  - 2.2 Exploring Qualitative Risk Assessment Techniques
  - 2.3 Comparing Quantitative and Qualitative Approaches
  - 2.4 Implementing Probabilistic Risk Modelling
  - 2.5 Applying Subjective Judgement in Risk Assessment
  - 2.6 Integrating Assessment Techniques in Crisis Scenarios
- **3 Aviation Risk Interactions and Systemic Analysis** — 6 classes
  - 3.1 Exploring the Basics of Aviation Risk Interactions
  - 3.2 Understanding Systemic Risk in Aviation
  - 3.3 Identifying and Analyzing Risk Interdependencies
  - 3.4 Mapping Risk Pathways and Systemic Flows
  - 3.5 Evaluating Systemic Risk Impacts on Aviation Safety
  - 3.6 Integrating Systemic Analysis into Risk Management Strategies
- **4 Strategic Risk Mitigation and Management Planning** — 6 classes
  - 4.1 Understanding Strategic Risk Mitigation Frameworks
  - 4.2 Identifying Key Risks in Aviation Operations
  - 4.3 Applying Quantitative Techniques for Risk Assessment
  - 4.4 Developing Comprehensive Risk Response Strategies
  - 4.5 Integrating Risk Mitigation into Crisis Management Plans
  - 4.6 Evaluating and Refining Strategic Risk Management Plans
- **5 Leadership in Crisis Situations and Decision-Making** — 6 classes
  - 5.1 Understanding the Basics of Crisis Leadership
  - 5.2 Identifying Key Decision-Making Challenges in Crises
  - 5.3 Analyzing Leadership Styles Under Pressure
  - 5.4 Applying Strategic Thinking to Risk Assessment
  - 5.5 Developing Effective Communication Strategies in Emergencies
  - 5.6 Evaluating Crisis Response and After-Action Reviews

2 Crisis Management Planning

5 chapters · 30 classes **85 marks**

- **1 Understanding Crisis Management in Aviation** — 6 classes
  - 1.1 Identifying Key Components of Crisis Management in Aviation
  - 1.2 Exploring the Stages of Crisis Development and Response
  - 1.3 Analyzing Real-World Aviation Crisis Scenarios
  - 1.4 Assessing Organizational Vulnerabilities and Risks
  - 1.5 Developing Effective Crisis Management Strategies
  - 1.6 Implementing a Crisis Management Plan in an Aviation Setting
- **2 Identifying and Assessing Aviation Risks** — 6 classes
  - 2.1 Understanding the Scope of Aviation Risks
  - 2.2 Identifying Potential Hazards in Aviation Operations
  - 2.3 Analyzing the Impact of Environmental Factors on Aviation Safety
  - 2.4 Evaluating Human Factors and Their Influence on Risk
  - 2.5 Prioritizing Risks Through Assessment Techniques
  - 2.6 Developing a Risk Profile for Comprehensive Crisis Management
- **3 Developing Effective Crisis Management Plans** — 6 classes
  - 3.1 Understanding the Fundamentals of Crisis Management Plans
  - 3.2 Identifying Potential Crises and Their Impact on Aviation
  - 3.3 Analyzing Key Components of an Effective Crisis Management Plan
  - 3.4 Developing a Comprehensive Risk Assessment Framework
  - 3.5 Crafting Strategic Response Protocols for Aviation Crises
  - 3.6 Testing and Refining Crisis Management Plans Through Simulation
- **4 Implementing Crisis Response Protocols** — 6 classes
  - 4.1 Understanding Crisis Response Protocols
  - 4.2 Identifying Key Roles in Crisis Situations
  - 4.3 Developing Communication Strategies for Crisis Response
  - 4.4 Coordinating Resources and Personnel During Crises
  - 4.5 Executing Real-time Crisis Response Scenarios
  - 4.6 Evaluating and Improving Crisis Response Protocols
- **5 Evaluating and Improving Crisis Management Strategies** — 6 classes
  - 5.1 Understanding Key Components of Crisis Management Strategies
  - 5.2 Identifying Strengths and Weaknesses in Current Strategies
  - 5.3 Analyzing Real-World Case Studies for Effective Practices
  - 5.4 Developing Metrics for Evaluating Strategy Effectiveness
  - 5.5 Integrating Feedback to Strengthen Crisis Management Plans
  - 5.6 Implementing Continuous Improvement Processes in Strategy Management

3 Integrated Safety Management Systems

5 chapters · 30 classes **65 marks**

- **1 Fundamentals of Integrated Safety Management Systems** — 6 classes
  - 1.1 Exploring the Core Principles of Safety Management
  - 1.2 Understanding the Components of an Integrated Safety Management System
  - 1.3 Recognising the Role of Leadership in Safety Culture
  - 1.4 Identifying Hazards and Assessing Risks
  - 1.5 Implementing Safety Assurance Processes
  - 1.6 Integrating Continuous Improvement in Safety Management
- **2 Regulatory Frameworks and Industry Standards** — 6 classes
  - 3.1 Understand the Role of Regulatory Frameworks in Aviation Safety
  - 3.2 Explore Key Aviation Safety Regulations and Their Implications
  - 3.3 Compare International Aviation Standards and Their Harmonization
  - 3.4 Analyze the Impact of Industry Standards on Safety Management Systems
  - 3.5 Assess Compliance Strategies for Aviation Safety Regulations
  - 3.6 Apply Industry Standards to Enhance Safety Management Effectiveness
- **3 Risk Assessment and Mitigation Strategies** — 6 classes
  - 3.1 Understanding Risk in Aviation: Key Concepts and Definitions
  - 3.2 Identifying Hazards: Techniques and Tools for Detection
  - 3.3 Assessing Risk Levels: Methods and Models in Aviation
  - 3.4 Developing Mitigation Strategies: Balancing Safety and Efficiency
  - 3.5 Implementing Risk Controls: Procedures and Best Practices
  - 3.6 Evaluating Risk Mitigation Outcomes: Continuous Monitoring and Improvement
- **4 Crisis Management and Emergency Preparedness** — 6 classes
  - 4.1 Understanding Crisis Management Fundamentals
  - 4.2 Identifying Potential Aviation Emergencies
  - 4.3 Developing Effective Emergency Response Plans
  - 4.4 Coordinating Crisis Communication Strategies
  - 4.5 Implementing Safety Protocols During Crises
  - 4.6 Evaluating and Improving Crisis Preparedness
- **5 Leadership and Culture for Safety Management** — 6 classes
  - 5.1 Understanding the Role of Leadership in Safety Management
  - 5.2 Examining Organizational Culture and Its Impact on Safety
  - 5.3 Identifying Key Leadership Behaviors that Promote Safety
  - 5.4 Analyzing Case Studies of Effective Safety Leadership
  - 5.5 Implementing Strategies to Foster a Safety-Oriented Culture
  - 5.6 Assessing and Enhancing Safety Leadership Skills

4 Regulatory Compliance Strategies

5 chapters · 30 classes **65 marks**

- **1 Understanding Regulatory Frameworks in Aviation** — 6 classes
  - 1.1 Exploring the Foundations of Aviation Regulatory Frameworks
  - 1.2 Identifying Key International Aviation Regulatory Bodies
  - 1.3 Analyzing the Role of ICAO in Global Aviation Standards
  - 1.4 Understanding EASA Regulations and Their Impact on Compliance
  - 1.5 Examining CAA Compliance Requirements for UK Operations
  - 1.6 Applying Regulatory Frameworks to Enhance Safety and Efficiency
- **2 Analyzing Safety Management Systems (SMS)** — 6 classes
  - 2.1 Understanding the Foundations of Safety Management Systems
  - 2.2 Identifying Key Components of SMS Frameworks
  - 2.3 Analyzing Risk Assessment Methods in SMS
  - 2.4 Evaluating SMS Performance and Effectiveness
  - 2.5 Integrating SMS with Regulatory Compliance
  - 2.6 Applying Continuous Improvement in SMS
- **3 Navigating Crisis Management Protocols** — 6 classes
  - 3.1 Understanding Crisis Management Protocols
  - 3.2 Identifying Key Regulatory Requirements
  - 3.3 Aligning Protocols with International Standards
  - 3.4 Developing Crisis Communication Strategies
  - 3.5 Implementing Risk Mitigation Tactics
  - 3.6 Evaluating Protocol Effectiveness
- **4 Evaluating Security Measures and Compliance** — 6 classes
  - 4.1 Understanding Regulatory Frameworks in Aviation Security
  - 4.2 Identifying Key Compliance Requirements in Aviation
  - 4.3 Assessing the Effectiveness of Current Security Measures
  - 4.4 Analyzing Risk Assessment Processes in Aviation Security
  - 4.5 Implementing Best Practices for Regulatory Compliance
  - 4.6 Evaluating Compliance through Monitoring and Audits
- **5 Implementing Compliance Strategies in Aviation Leadership** — 6 classes
  - 5.1 Understanding the Regulatory Framework in Aviation
  - 5.2 Identifying Key Compliance Obligations for Aviation Leaders
  - 5.3 Analyzing Aviation Compliance Risks
  - 5.4 Developing Effective Compliance Management Systems
  - 5.5 Integrating Compliance Strategies into Leadership Practices
  - 5.6 Monitoring and Evaluating Compliance Performance

5 Safety Culture Evaluations

5 chapters · 30 classes **65 marks**

- **1 Understanding Safety Culture in Aviation** — 6 classes
  - 1.1 Defining Safety Culture in Aviation
  - 1.2 Recognizing the Elements of Safety Culture
  - 1.3 Identifying Challenges in Safety Culture Implementation
  - 1.4 Analyzing the Impact of Safety Culture on Aviation Operations
  - 1.5 Evaluating Safety Culture Through Observation and Feedback
  - 1.6 Applying Safety Culture Best Practices in Leadership
- **2 Assessment Tools and Techniques for Safety Culture** — 6 classes
  - 2.1 Understanding Safety Culture in Aviation
  - 2.2 Identifying Key Indicators of Safety Culture
  - 2.3 Exploring Qualitative Assessment Tools
  - 2.4 Analyzing Quantitative Evaluation Techniques
  - 2.5 Integrating Mixed Methods for Comprehensive Analysis
  - 2.6 Applying Assessment Results to Enhance Safety Culture
- **3 Analyzing Safety Culture Evaluation Data** — 6 classes
  - 3.1 Understanding Safety Culture Evaluation Data
  - 3.2 Identifying Key Indicators in Safety Data
  - 3.3 Analyzing Trends in Safety Culture Reports
  - 3.4 Utilizing Data Visualization Tools for Safety Analysis
  - 3.5 Interpreting Quantitative and Qualitative Safety Data
  - 3.6 Applying Findings to Enhance Safety Culture
- **4 Implementing Improvements Based on Evaluation Outcomes** — 6 classes
  - 4.1 Understanding Evaluation Findings: Identifying Key Areas for Improvement
  - 4.2 Prioritizing Action: Developing a Strategic Improvement Plan
  - 4.3 Engaging Stakeholders: Communicating Evaluation Outcomes Effectively
  - 4.4 Implementing Changes: Transforming Evaluation Results into Practice
  - 4.5 Monitoring Progress: Setting Metrics for Success
  - 4.6 Reviewing and Adapting: Ensuring Continuous Safety Improvement
- **5 Case Studies in Safety Culture Transformation** — 6 classes
  - 5.1 Understanding Safety Culture: Foundations and Importance
  - 5.2 Analyzing Key Drivers of Safety Culture Transformation
  - 5.3 Examining Case Study: Successful Safety Overhaul in Aviation
  - 5.4 Identifying Challenges in Safety Culture Change Efforts
  - 5.5 Leveraging Leadership Strategies in Safety Culture Reforms
  - 5.6 Applying Lessons Learned: Practical Steps for Safety Culture Improvement

6 Team Leadership Dynamics

5 chapters · 30 classes **65 marks**

- **1 Foundations of Team Leadership in Aviation** — 6 classes
  - 1.1 Understanding Core Principles of Team Leadership
  - 1.2 Analyzing Key Roles and Responsibilities in Aviation Teams
  - 1.3 Exploring Communication Techniques for Aviation Leaders
  - 1.4 Building Trust and Cohesion in Diverse Aviation Teams
  - 1.5 Managing Conflict and Decision-Making in High-Pressure Situations
  - 1.6 Applying Leadership Strategies to Enhance Team Performance
- **2 Communication Strategies for Risk and Crisis Management** — 6 classes
  - 2.1 Understanding Communication Dynamics in Crisis Situations
  - 2.2 Exploring Key Communication Channels in Risk Management
  - 2.3 Identifying Barriers to Effective Crisis Communication
  - 2.4 Implementing Effective Listening Techniques for Leadership
  - 2.5 Crafting Clear and Concise Messages Under Pressure
  - 2.6 Evaluating Communication Strategies through Case Studies
- **3 Decision-Making Dynamics in High-Stress Environments** — 6 classes
  - 3.1 Understanding Stress Impacts on Decision-Making
  - 3.2 Analyzing Common Decision-Making Pitfalls Under Pressure
  - 3.3 Applying Cognitive Tools for Clarity in High-Stress Situations
  - 3.4 Developing Situational Awareness in Crisis Scenarios
  - 3.5 Utilizing Team Dynamics to Enhance Decision Outcomes
  - 3.6 Implementing Effective Decision-Making Strategies in Real-Time
- **4 Conflict Resolution & Team Cohesion in Aviation** — 6 classes
  - 4.1 Understanding Conflict Sources in Aviation Teams
  - 4.2 Recognizing the Impact of Conflict on Team Cohesion
  - 4.3 Exploring Communication Strategies for Conflict Resolution
  - 4.4 Applying Mediation Techniques to Resolve Team Conflicts
  - 4.5 Fostering Team Unity Through Collaborative Problem Solving
  - 4.6 Building Resilient Teams: Strategies for Long-term Cohesion
- **5 Adaptive Leadership for Crisis Adaptation & Innovation** — 6 classes
  - 5.1 Understanding Adaptive Leadership in Crises
  - 5.2 Exploring Innovative Problem-Solving Techniques
  - 5.3 Developing Resilience in Crisis Situations
  - 5.4 Applying Adaptive Strategies to Real-World Scenarios
  - 5.5 Enhancing Team Collaboration under Pressure
  - 5.6 Implementing Continuous Improvement in Crisis Management