

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 31000SMV — Risk Management in Autonomous Systems

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-SMV-31000SMV • ISO Transport

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AT A GLANCE

REFERENCE	TR-SMV-31000SMV
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Case Studies in Risk Management 0 chapters65 marks	
2 Regulatory Compliance and Standards 5 chapters · 30 classes85 marks	
• 1 Introduction to Regulatory Frameworks for Autonomous Systems — 6 classes › 1.1 Explore the Key Components of Regulatory Frameworks for Autonomous Systems › 1.2 Identify Major Regulatory Bodies and Their Roles in Autonomous Systems › 1.3 Analyze Current Regulations Impacting Autonomous System Development › 1.4 Examine Compliance Requirements for ISO 31000 in Autonomous Systems › 1.5 Discuss Challenges of Regulatory Compliance in Autonomous Operations › 1.6 Apply Regulatory Frameworks to Case Studies of Autonomous Systems • 2 Understanding ISO Standards Relevant to Smart Systems Vehicles — 6 classes › 2.1 Identify Key ISO Standards Impacting Smart Systems Vehicles › 2.2 Explain the Importance of Compliance with ISO 31000 › 2.3 Analyze Risk Management Principles in Autonomous System Frameworks › 2.4 Assess the Relationship Between ISO Standards and Regulatory Requirements › 2.5 Evaluate Case Studies on ISO Standard Implementation in Smart Vehicles › 2.6 Develop a Compliance Checklist for ISO Standards in Autonomous Systems • 3 Risk Management Principles Applied to Autonomous Systems — 6 classes › 3.1 Identify Key Risk Management Principles for Autonomous Systems › 3.2 Analyze the Regulatory Landscape for Autonomous Systems › 3.3 Assess the Impact of Risks in Autonomous System Operations › 3.4 Develop Risk Mitigation Strategies for Autonomous Technologies › 3.5 Implement Monitoring and Review Processes for Risk Management › 3.6 Evaluate Compliance with ISO 31000SMV Standards in Practice	• 4 Assessment and Mitigation of Compliance Risks — 6 classes › 4.1 Identify Key Compliance Risks in Autonomous Systems › 4.2 Analyze Regulatory Frameworks Impacting Risk Management › 4.3 Evaluate Internal Processes for Compliance Risk Assessment › 4.4 Develop Mitigation Strategies for Identified Risks › 4.5 Implement Compliance Monitoring and Reporting Mechanisms › 4.6 Review Case Studies on Compliance Risk Management Successes and Failures • 5 Future Trends in Regulatory Compliance for Autonomous Vehicles — 6 classes › 5.1 Analyze Emerging Regulatory Trends for Autonomous Vehicles › 5.2 Evaluate Key Compliance Frameworks Impacting Autonomous Systems › 5.3 Examine International Standards for the Safe Operation of Autonomous Vehicles › 5.4 Assess the Role of Technology in Regulatory Compliance for Automation › 5.5 Develop Case Studies on Recent Regulatory Changes in the UK › 5.6 Design Compliance Strategies for Future Autonomous Vehicle Innovations

• 1 Fundamentals of Risk Analysis in Autonomous Vehicles — 6

classes

- › 1.1 Define Key Terms and Concepts in Autonomous Vehicle Risk Analysis
- › 1.2 Identify Types of Risks Associated with Autonomous Vehicles
- › 1.3 Analyze Risk Factors in Autonomous System Operations
- › 1.4 Evaluate the Impact of External Environments on Risk Levels
- › 1.5 Develop Risk Mitigation Strategies for Autonomous Vehicles
- › 1.6 Apply Risk Assessment Tools to Real-World Autonomous Vehicle Scenarios

• 2 Identifying and Assessing Risks in Smart Systems Vehicles — 6

classes

- › 2.1 Define Key Concepts of Risk in Autonomous Vehicles
- › 2.2 Identify Common Risks in Smart Systems Vehicles
- › 2.3 Analyze Impact of Identified Risks on Vehicle Operations
- › 2.4 Evaluate Likelihood of Risks Occurring in Autonomous Systems
- › 2.5 Prioritize Risks Based on Severity and Likelihood
- › 2.6 Develop Mitigation Strategies for High-Priority Risks

• 3 Risk Mitigation Strategies for Autonomous Systems — 6 classes

- › 3.1 Identify Key Risks in Autonomous Vehicle Systems
- › 3.2 Analyze Risk Factors Affecting Autonomous Operation
- › 3.3 Evaluate Existing Risk Mitigation Strategies
- › 3.4 Develop Custom Risk Mitigation Plans for Specific Scenarios
- › 3.5 Implement Best Practices for Monitoring and Reviewing Risks
- › 3.6 Assess the Effectiveness of Mitigation Strategies Post-Implementation

• 4 Risk Management Standards and Compliance in the Autonomous Vehicle Industry — 6 classes

- › 4.1 Understand Key Risk Management Standards in Autonomous Vehicles
- › 4.2 Identify Compliance Requirements for Autonomous Vehicle Operations
- › 4.3 Analyze Risk Assessment Methods in Autonomous Systems
- › 4.4 Evaluate the Role of Stakeholders in Risk Management Processes
- › 4.5 Apply ISO 31000 Principles to Case Studies in Autonomous Vehicles
- › 4.6 Develop a Risk Management Framework for Autonomous Vehicle Projects

• 5 Future Trends and Emerging Risks in Autonomous Vehicle Technologies — 6 classes

- › 5.1 Identify Future Trends in Autonomous Vehicle Technologies
- › 5.2 Analyze Emerging Risks Associated with Autonomous Systems
- › 5.3 Evaluate Regulatory Impacts on Autonomous Vehicle Innovation
- › 5.4 Assess Ethical Considerations in Autonomous Vehicle Deployment
- › 5.5 Develop Strategies for Mitigating Identified Risks
- › 5.6 Create a Risk Management Plan for Future Autonomous Vehicles