

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 21448SMV — Safety of the Intended Functionality SOTIF

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-SMV-21448SMV • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	TR-SMV-21448SMV
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Implementation Strategies 0 chapters85 marks	
2 Introduction to SOTIF 5 chapters · 30 classes85 marks	• 1 Fundamentals of SOTIF in Smart Vehicle Systems — 6 classes › 1.1 Define SOTIF: Understanding Safety of the Intended Functionality › 1.2 Explore Smart Vehicle Systems: Key Components and Functionality › 1.3 Identify Potential Risks: Analyzing Hazards in Smart Vehicles › 1.4 Examine SOTIF Standards: Key Principles and Guidelines › 1.5 Apply SOTIF Concepts: Case Studies in Smart Vehicle Implementation › 1.6 Evaluate SOTIF Compliance: Metrics and Assessment Techniques • 2 Regulatory Framework and Standards for SOTIF — 6 classes › 2.1 Understand the Purpose of SOTIF in Automotive Safety › 2.2 Explore Key Regulations Impacting SOTIF Standards › 2.3 Identify Global SOTIF Standards and Guidelines › 2.4 Analyze the Interplay Between SOTIF and ISO 26262 › 2.5 Evaluate Case Studies on SOTIF Compliance › 2.6 Develop Implementation Strategies for SOTIF Standards • 3 Risk Assessment Methodologies in SOTIF Implementation — 6 classes › 3.1 Define Key Concepts in SOTIF Risk Assessment › 3.2 Identify Risk Assessment Methodologies for SOTIF › 3.3 Analyze the Importance of Safety and Functionality › 3.4 Evaluate Risk Assessment Case Studies in SOTIF › 3.5 Apply Risk Assessment Techniques to Real-World Scenarios › 3.6 Develop a Comprehensive Risk Management Plan for SOTIF • 4 Case Studies: Successful SOTIF Applications in Smart Vehicles — 6 classes › 4.1 Analyze Key SOTIF Principles in Smart Vehicle Case Studies › 4.2 Identify Common Challenges and Solutions in SOTIF Applications › 4.3 Evaluate the Role of Testing in Successful SOTIF Implementation › 4.4 Compare Case Study Outcomes to Industry Standards for SOTIF › 4.5 Discuss Innovative Practices for Enhancing SOTIF in Smart Vehicles › 4.6 Create a Strategic Plan for Incorporating SOTIF Insights into Future Projects • 5 Future Trends and Challenges in SOTIF for Intelligent Transport — 6 classes › 5.1 Explore the Concept of Safety of the Intended Functionality (SOTIF) › 5.2 Identify Key Future Trends Impacting SOTIF in Intelligent Transport › 5.3 Analyze the Role of Artificial Intelligence in Enhancing SOTIF › 5.4 Discuss Challenges Associated with Autonomous Vehicle Safety Standards › 5.5 Evaluate the Importance of Interoperability for SOTIF Compliance › 5.6 Propose Solutions to Mitigate SOTIF Challenges in Emerging Technologies
3 Leadership in Safety Management 0 chapters45 marks	
4 Monitoring and Evaluation 0 chapters45 marks	

5

Risk Assessment Techniques

0 chapters 105 marks

6

Safety Standards and Compliance

0 chapters 65 marks