

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 26262 — Functional Safety for Road Vehicles

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-ROD-26262 • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	TR-ROD-26262
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1	Designing Safety Assurance Processes	0 chapters	85 marks
2	Evaluating Safety Compliance	0 chapters	65 marks
3	Improving Organisational Safety Practices	0 chapters	65 marks
4	Leading Functional Safety Teams	0 chapters	45 marks
5	Risk Assessment and Management	5 chapters · 12 classes	85 marks
• 1 Understanding Functional Safety and ISO 26262 Principles — 6 classes › 1.1 Define Functional Safety in Road Vehicles › 1.2 Explore the Importance of Risk Assessment in ISO 26262 › 1.3 Identify Key Principles of ISO 26262 Standards › 1.4 Analyze Risk Management Strategies within ISO 26262 Framework › 1.5 Examine the Role of Safety Lifecycle in Functional Safety › 1.6 Apply ISO 26262 Principles to Real-World Scenarios • 2 Identifying Hazards in Road Vehicle Systems — 6 classes › 2.1 Define Key Terms Related to Hazards in Road Vehicle Systems › 2.2 Explore Common Hazards Associated with Road Vehicle Systems › 2.3 Analyze Historical Case Studies of Road Vehicle Hazards › 2.4 Utilize Risk Assessment Tools to Identify Hazards › 2.5 Evaluate the Impact of Identified Hazards on Vehicle Safety › 2.6 Develop Hazard Mitigation Strategies for Road Vehicle Systems • 3 Risk Assessment Techniques in Road Vehicle Safety • 4 Safety Goals and Risk Management Strategies • 5 Verification, Validation, and Continuous Improvement in Risk Management			

• 1 Introduction to ISO 26262: Overview and Importance — 6 classes

- › 1.1 Define ISO 26262 and Its Relevance to Road Vehicle Safety
- › 1.2 Identify Key Components and Structure of ISO 26262 Standards
- › 1.3 Explore Historical Context and Development of ISO 26262
- › 1.4 Discuss the Role of Functional Safety in Automotive Engineering
- › 1.5 Analyze Case Studies Demonstrating ISO 26262 Implementation
- › 1.6 Evaluate the Impact of ISO 26262 on Future Automotive Innovations

• 2 Understanding the ISO 26262 Life Cycle: Phases and Processes

— 6 classes

- › 2.1 Identify ISO 26262 Life Cycle Phases
- › 2.2 Understand Safety Management Concepts
- › 2.3 Analyze Requirements Specification Processes
- › 2.4 Explore Design and Development Activities
- › 2.5 Evaluate Verification and Validation Techniques
- › 2.6 Implement Functional Safety Assessment Practices

• 3 Safety Concepts and Requirements in ISO 26262 — 6 classes

- › 3.1 Define core safety concepts in ISO 26262
- › 3.2 Identify key safety requirements for road vehicles
- › 3.3 Analyze the importance of hazard analysis in functional safety
- › 3.4 Distinguish between safety goals and safety requirements
- › 3.5 Explore the role of safety mechanisms in system design
- › 3.6 Apply safety concepts to a practical case study in ISO 26262

• 4 Implementation of Safety Measures and Verification Techniques

— 6 classes

- › 4.1 Identify Key Safety Measures in ISO 26262 Implementation
- › 4.2 Analyze the Role of Hazard Analysis and Risk Assessment
- › 4.3 Explore Verification Techniques for Functional Safety
- › 4.4 Develop a Safety Plan Aligned with ISO 26262 Guidelines
- › 4.5 Implement Safety Verification Processes in Development
- › 4.6 Evaluate Effectiveness of Safety Measures Through Testing

• 5 ISO 26262 Compliance and Management for Leadership Roles — 6 classes

- › 5.1 Explore ISO 26262 Overview and Its Importance for Leadership
- › 5.2 Identify Key ISO 26262 Standards Relevant to Management Roles
- › 5.3 Assess Compliance Requirements for Road Vehicle Safety
- › 5.4 Implement Risk Management Strategies for ISO 26262 Compliance
- › 5.5 Develop Leadership Skills for Effective Compliance Management
- › 5.6 Create an Action Plan for Achieving ISO 26262 Certification