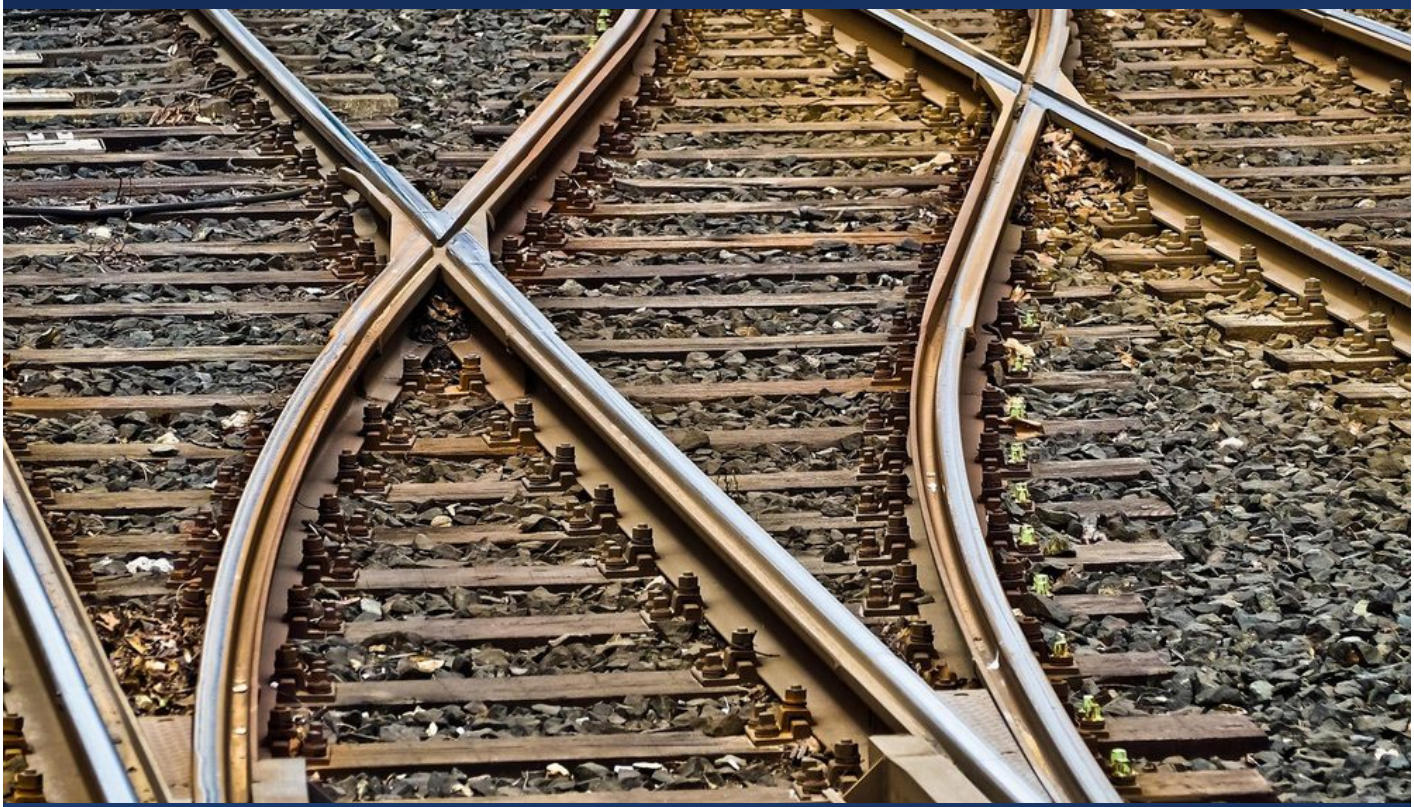
LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 20900 — Intelligent Transport Systems

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-SMV-20900 • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

6	15	66	430	60%	Lifetime
SUBJECTS	CHAPTERS	CLASSES	TOTAL MARKS	PASS MARK	VALIDITY

AT A GLANCE

REFERENCE	**TR-SMV-20900**
AWARD	**Certificate**
ASSESSMENT	**430 marks — 258 to pass (60%)**
PREREQUISITES	**None**
VALIDITY	**Lifetime**
AWARDING BODY	**LAPT — London Academy of Professional Training**

CURRICULUM

1 Data Analytics for Transport Systems

0 chapters · **65 marks**

2 Financial Management in Transport Projects

0 chapters · **45 marks**

3 Project Management for Smart Systems

5 chapters · 6 classes · **65 marks**

- **1 Foundations of Project Management in Smart Systems** — 6 classes
  - 1.1 Define Project Management Concepts in Smart Systems
  - 1.2 Identify Key Stakeholders in Intelligent Transport Systems
  - 1.3 Analyze the Project Lifecycle for Smart Systems Initiatives
  - 1.4 Explore Risk Management Strategies in Smart Projects
  - 1.5 Develop Project Goals and Objectives for Intelligent Transport Systems
  - 1.6 Evaluate Tools and Techniques for Effective Project Management
- **2 Lifecycle Management of Smart Transport Projects**
- **3 Stakeholder Engagement and Communication Strategies**
- **4 Risk Assessment and Mitigation in Intelligent Transport Systems**
- **5 Evaluating Project Outcomes and Continuous Improvement**

4 Regulatory and Compliance Frameworks

0 chapters · **65 marks**

5 Strategic Management in Intelligent Transport

5 chapters · 30 classes **105 marks**

1 Understanding the Foundations of Intelligent Transport Systems — 6 classes

- 1.1 Define Intelligent Transport Systems and their Components
- 1.2 Explore the Historical Development of Intelligent Transport Systems
- 1.3 Analyze Key Technologies in Intelligent Transport Systems
- 1.4 Examine the Role of Data in Intelligent Transport Systems
- 1.5 Assess the Impact of Intelligent Transport Systems on Urban Mobility
- 1.6 Develop Strategies for Implementing Intelligent Transport Systems in Practice

2 Strategic Frameworks for Intelligent Transport Management — 6 classes

- 2.1 Analyze the Importance of Strategic Frameworks in Intelligent Transport
- 2.2 Identify Key Components of Effective Transport Management Strategies
- 2.3 Evaluate Different Strategic Framework Models for Transport Systems
- 2.4 Develop a SWOT Analysis for Intelligent Transport Management
- 2.5 Create a Strategic Action Plan for Implementation in Transport Systems
- 2.6 Present and Critique a Case Study on Strategic Frameworks in Intelligent Transport

3 Stakeholder Engagement in Intelligent Transport Initiatives — 6 classes

- 3.1 Identify Key Stakeholders in Intelligent Transport Initiatives
- 3.2 Analyze Stakeholder Interests and Influence
- 3.3 Develop Effective Communication Strategies for Stakeholder Engagement
- 3.4 Facilitate Stakeholder Collaboration and Partnerships
- 3.5 Evaluate Stakeholder Feedback and Engagement Outcomes
- 3.6 Create a Stakeholder Engagement Action Plan for Implementation

4 Risk Management and Compliance in Intelligent Transport Systems — 6 classes

- 4.1 Identify Key Risks in Intelligent Transport Systems
- 4.2 Analyze Compliance Requirements for Intelligent Transport Solutions
- 4.3 Evaluate Risk Assessment Techniques in Transport Management
- 4.4 Develop Mitigation Strategies for Identified Risks
- 4.5 Implement Compliance Tracking Mechanisms for Intelligent Systems
- 4.6 Assess the Effectiveness of Risk Management Practices in Transport

5 Future Trends and Innovations in Intelligent Transport Systems — 6 classes

- 5.1 Explore Emerging Technologies in Intelligent Transport Systems
- 5.2 Analyze Current Trends Influencing Intelligent Transport
- 5.3 Evaluate the Role of Data Analytics in Transport Innovation
- 5.4 Assess the Impact of Autonomous Vehicles on Transport Dynamics
- 5.5 Investigate Sustainability Practices in Intelligent Transport Systems
- 5.6 Develop Strategic Recommendations for Implementing Innovations

6 Technology Integration and Implementation

5 chapters · 30 classes **85 marks**

1 Fundamentals of Intelligent Transport Systems Integration — 6 classes

- 1.1 Define Intelligent Transport Systems and Their Importance
- 1.2 Identify Key Components of Intelligent Transport Systems
- 1.3 Explore Technologies Used in Intelligent Transport Systems
- 1.4 Examine Integration Challenges in Intelligent Transport Systems
- 1.5 Analyze Case Studies of Successful Intelligent Transport Systems Integration
- 1.6 Develop an Implementation Plan for Intelligent Transport Technologies

2 Assessing Technology Needs for Smart Vehicles — 6 classes

- 2.1 Identify Key Technology Trends Impacting Smart Vehicles
- 2.2 Analyze Current Infrastructure Requirements for Smart Vehicle Integration
- 2.3 Evaluate User Needs and Expectations for Smart Transport Solutions
- 2.4 Assess Data Management and Security Needs for Intelligent Transport Systems
- 2.5 Develop Criteria for Selecting Technology Solutions for Smart Vehicles
- 2.6 Create a Roadmap for Implementing Technology Assessments in Smart Vehicles

3 Frameworks for Implementing Smart Transport Solutions — 6 classes

- 3.1 Analyze Current Transport Challenges and Opportunities
- 3.2 Explore Key Components of Smart Transport Frameworks
- 3.3 Investigate Technological Solutions for Transportation Issues
- 3.4 Develop a Strategic Plan for Smart Transport Implementation
- 3.5 Evaluate Stakeholder Roles in Smart Transport Frameworks
- 3.6 Implement Pilot Projects for Smart Transport Solutions

4 Data Management and Communication Protocols in Smart Systems — 6 classes

- 4.1 Explore the Fundamentals of Data Management in Smart Systems
- 4.2 Identify Key Communication Protocols for Intelligent Transport Systems
- 4.3 Analyze Data Flow in Smart Systems: Inputs and Outputs
- 4.4 Compare Different Communication Protocols for Efficiency and Reliability
- 4.5 Design a Simple Data Management Strategy for Smart Transport Solutions
- 4.6 Implement a Communication Protocol in a Case Study Scenario

5 Evaluating the Impact of Technology Integration on Transport Efficiency — 6 classes

- 5.1 Analyze Current Transport Efficiency Metrics
- 5.2 Identify Key Technologies in Intelligent Transport Systems
- 5.3 Evaluate Case Studies of Successful Technology Integration
- 5.4 Assess Challenges in Implementing New Technologies
- 5.5 Develop a Framework for Measuring Impact on Efficiency
- 5.6 Present Findings and Recommendations for Future Practices

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Curriculum current at the date of issue.