

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 37106 — Smart City Operating Models

ISO Certification Programme



LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

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AT A GLANCE

REFERENCE	MGT-SMC-37106
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Evaluation and Assessment of Smart City Projects

5 chapters · 30 classes 45 marks

• 1 Understanding Smart City Projects: Concepts and Frameworks — 6 classes

› 1.1 Define Smart City Projects: Core Concepts and Importance

› 1.2 Identify Key Stakeholders in Smart City Initiatives

› 1.3 Examine Frameworks for Planning Smart City Projects

› 1.4 Explore Best Practices for Assessing Smart City Outcomes

› 1.5 Analyze Case Studies of Successful Smart City Projects

› 1.6 Develop criteria for Evaluating Smart City Project Effectiveness

• 2 Evaluation Criteria: Metrics and Indicators for Smart Cities — 6 classes

› 2.1 Identify Key Metrics for Smart City Evaluation

› 2.2 Analyze Quantitative Indicators for Urban Performance

› 2.3 Assess Qualitative Criteria in Smart City Projects

› 2.4 Compare Global Smart City Frameworks and Standards

› 2.5 Develop a Comprehensive Evaluation Framework

› 2.6 Implement Real-World Case Studies to Test Metrics

• 3 Analytical Tools and Methods for Smart City Project Assessment — 6 classes

› 3.1 Identify Key Analytical Tools for Smart City Project Assessment

› 3.2 Evaluate Data Collection Methods in Smart City Projects

› 3.3 Analyze Metrics for Measuring Smart City Success

› 3.4 Apply SWOT Analysis to Smart City Initiatives

› 3.5 Utilize Cost-Benefit Analysis in Smart City Project Decision-Making

› 3.6 Develop a Framework for Continuous Evaluation of Smart City Projects

• 4 Stakeholder Engagement and Impact Analysis in Smart Cities — 6 classes

› 4.1 Identify Key Stakeholders in Smart City Projects

› 4.2 Analyze Stakeholder Interests and Influence

› 4.3 Develop Effective Engagement Strategies for Stakeholders

› 4.4 Conduct Impact Assessments for Smart City Initiatives

› 4.5 Evaluate the Effectiveness of Stakeholder Engagement

› 4.6 Create a Stakeholder Feedback Mechanism for Continuous Improvement

• 5 Case Studies: Lessons Learned from Smart City Evaluations — 6 classes

› 5.1 Analyze Key Success Factors in Smart City Evaluations

› 5.2 Identify Common Pitfalls in Smart City Project Assessments

› 5.3 Compare Methodologies Used in Notable Smart City Case Studies

› 5.4 Extract Useful Metrics for Measuring Smart City Outcomes

› 5.5 Evaluate Stakeholder Engagement in Successful Smart City Projects

› 5.6 Propose Recommendations Based on Lessons from Case Studies

• 1 Understanding Governance in Smart Cities — 6 classes

- › 1.1 Define Governance Structures in Smart Cities
- › 1.2 Analyze the Role of Stakeholders in Smart City Governance
- › 1.3 Explore Policy Frameworks Supporting Smart City Initiatives
- › 1.4 Assess the Impact of Leadership in Smart City Governance
- › 1.5 Identify Challenges in Implementing Governance Models
- › 1.6 Develop Strategic Recommendations for Effective Governance

• 2 Policy Development for Smart City Initiatives — 6 classes

- › 2.1 Identify Key Stakeholders in Smart City Policy Development
- › 2.2 Analyze Existing Governance Frameworks for Smart City Initiatives
- › 2.3 Explore Best Practices in Policy Development for Urban Innovation
- › 2.4 Design Policy Objectives Aligned with Smart City Goals
- › 2.5 Develop Implementation Strategies for Smart City Policies
- › 2.6 Assess the Impact of Policies on Community Engagement and Sustainability

• 3 Regulatory Frameworks Affecting Smart Cities — 6 classes

- › 3.1 Analyze Key Regulatory Frameworks Impacting Smart Cities
- › 3.2 Evaluate the Role of Policy in Smart City Development
- › 3.3 Identify Stakeholders in Smart City Governance
- › 3.4 Assess Compliance Requirements for Smart City Projects
- › 3.5 Develop Strategies for Engaging with Regulatory Bodies
- › 3.6 Create a Governance Model for Smart City Initiatives

• 4 Strategic Alignment of Governance and Technology — 6 classes

- › 4.1 Assess Current Governance Structures for Smart City Alignment
- › 4.2 Identify Key Technological Trends Impacting Governance
- › 4.3 Develop a Strategic Framework for Governance and Technology Integration
- › 4.4 Create Stakeholder Engagement Strategies for Governance Alignment
- › 4.5 Evaluate Case Studies of Successful Smart City Governance Models
- › 4.6 Design an Action Plan for Implementing Governance Technology Strategies

• 5 Evaluating Governance Effectiveness in Smart Cities — 6 classes

- › 5.1 Assessing Current Governance Structures in Smart Cities
- › 5.2 Identifying Key Performance Indicators for Governance Effectiveness
- › 5.3 Analyzing Stakeholder Engagement in Governance Frameworks
- › 5.4 Evaluating Data-Driven Decision Making in Governance
- › 5.5 Comparing Governance Models: Case Studies from Global Smart Cities
- › 5.6 Designing Action Plans for Enhancing Governance Effectiveness

• 1 Understanding Smart City Frameworks and Standards — 6 classes

- › 1.1 Explore the Concept of Smart Cities and Their Importance
- › 1.2 Identify Key Components of Smart City Frameworks
- › 1.3 Analyze ISO 37106 Standards and Their Relevance
- › 1.4 Discuss Leadership Roles in Smart City Implementations
- › 1.5 Evaluate Strategies for Enhancing Operational Efficiency
- › 1.6 Develop an Action Plan for Implementing Smart City Initiatives

• 2 Analyzing Stakeholder Roles in Smart City Operations — 6 classes

- › 2.1 Identify Key Stakeholders in Smart City Operations
- › 2.2 Analyze the Roles and Responsibilities of Stakeholders
- › 2.3 Evaluate Stakeholder Influence on Smart City Projects
- › 2.4 Map Interactions Between Stakeholders in Smart City Frameworks
- › 2.5 Develop Strategies for Effective Stakeholder Engagement
- › 2.6 Assess Stakeholder Collaboration for Operational Efficiency

• 3 Identifying Operational Challenges in Smart City Implementation

— 6 classes

- › 3.1 Assess Existing Operational Frameworks in Smart Cities
- › 3.2 Analyze Common Barriers to Implementation
- › 3.3 Evaluate Stakeholder Needs and Expectations
- › 3.4 Identify Technological Limitations and Opportunities
- › 3.5 Explore Strategies for Overcoming Operational Challenges
- › 3.6 Develop an Action Plan for Effective Implementation

• 4 Developing Effective Implementation Strategies — 6 classes

- › 4.1 Identify Key Stakeholders for Smart City Implementation
- › 4.2 Analyze Current Operational Frameworks for Efficiency
- › 4.3 Develop Tailored Implementation Strategies for Smart Initiatives
- › 4.4 Create a Roadmap for Phased Implementation of Strategies
- › 4.5 Measure and Evaluate the Effectiveness of Implementation Strategies
- › 4.6 Integrate Feedback Mechanisms to Enhance Operational Efficiency

• 5 Measuring Performance and Continuous Improvement in Smart Cities — 6 classes

- › 5.1 Define Key Performance Indicators for Smart City Initiatives
- › 5.2 Analyze Data Collection Methods for Performance Measurement
- › 5.3 Evaluate Performance Metrics: Tools and Techniques
- › 5.4 Implement Continuous Improvement Frameworks in Urban Settings
- › 5.5 Foster Stakeholder Engagement for Performance Feedback
- › 5.6 Develop Action Plans Based on Performance Insights

• 1 Foundations of Smart City Concepts and Definitions — 6 classes

- › 1.1 Define Smart Cities and Their Core Characteristics
- › 1.2 Explore the Benefits of Smart City Initiatives
- › 1.3 Identify Key Stakeholders in Smart City Development
- › 1.4 Analyze Case Studies of Successful Smart Cities
- › 1.5 Discuss Challenges and Barriers in Urban Smartification
- › 1.6 Create a Conceptual Framework for a Smart City Project

• 2 Technological Infrastructure of Smart Cities — 6 classes

- › 2.1 Explore the Fundamentals of Smart City Technological Infrastructure
- › 2.2 Identify Key Components of Smart City Technologies
- › 2.3 Analyze the Role of IoT in Urban Environments
- › 2.4 Evaluate Data Management Systems for Smart Cities
- › 2.5 Discuss the Impacts of Cybersecurity on Smart City Operations
- › 2.6 Design a Basic Technological Framework for a Smart City

• 3 Stakeholders and Governance in Smart City Development — 6 classes

- › 3.1 Identify Key Stakeholders in Smart City Development
- › 3.2 Analyze the Roles of Stakeholders in Governance Structures
- › 3.3 Examine Governance Models for Smart Cities
- › 3.4 Explore Collaboration Strategies Among Stakeholders
- › 3.5 Assess the Impact of Stakeholder Engagement on Smart City Outcomes
- › 3.6 Develop a Governance Framework for a Hypothetical Smart City Project

• 4 Sustainable Development Goals and Smart Cities — 6 classes

- › 4.1 Explore the Connection Between Sustainable Development Goals and Smart Cities
- › 4.2 Identify Key Sustainable Development Goals Relevant to Smart City Initiatives
- › 4.3 Analyze Case Studies of Smart Cities Advancing Sustainable Development Goals
- › 4.4 Assess the Role of Technology in Achieving Sustainable Development Goals in Urban Areas
- › 4.5 Develop a Plan for Integrating Sustainable Development Goals into Smart City Projects
- › 4.6 Present Innovative Strategies for Community Engagement in Sustainable Smart City Practices

• 5 Evaluating Smart City Initiatives: Metrics and Impact — 6 classes

- › 5.1 Define Metrics for Evaluating Smart City Success
- › 5.2 Identify Key Performance Indicators in Smart City Projects
- › 5.3 Assess the Social Impact of Smart City Initiatives
- › 5.4 Analyze Economic Effects of Smart City Implementations
- › 5.5 Evaluate Environmental Sustainability Metrics in Smart Cities
- › 5.6 Create a Framework for Assessing Smart City Initiative Outcomes

• 1 Understanding Stakeholder Dynamics in Smart Cities — 6 classes

- › 1.1 Identify Key Stakeholders in Smart City Initiatives
- › 1.2 Analyze the Interests and Influence of Stakeholders
- › 1.3 Explore Effective Communication Strategies with Stakeholders
- › 1.4 Assess Collaboration Models for Stakeholder Engagement
- › 1.5 Apply Problem-Solving Techniques to Stakeholder Conflicts
- › 1.6 Develop an Action Plan for Ongoing Stakeholder Engagement

• 2 Building Effective Communication Strategies — 6 classes

- › 2.1 Identify Key Stakeholders for Effective Communication
- › 2.2 Analyze Stakeholder Needs and Expectations
- › 2.3 Develop Targeted Messaging for Diverse Audiences
- › 2.4 Select Suitable Communication Channels for Engagement
- › 2.5 Implement Feedback Mechanisms to Enhance Collaboration
- › 2.6 Evaluate and Adapt Communication Strategies for Continuous Improvement

• 3 Collaborative Decision-Making Frameworks — 6 classes

- › 3.1 Define Collaborative Decision-Making in Smart Cities
- › 3.2 Identify Key Stakeholders in Collaborative Frameworks
- › 3.3 Analyze Barriers to Effective Stakeholder Engagement
- › 3.4 Explore Tools and Techniques for Collaboration
- › 3.5 Develop a Framework for Inclusive Decision-Making
- › 3.6 Implement a Case Study on Collaborative Decision-Making

• 4 Conflict Resolution and Consensus Building Techniques — 6 classes

- › 4.1 Identify Common Sources of Conflict in Stakeholder Engagement
- › 4.2 Explore Effective Communication Strategies for Conflict Resolution
- › 4.3 Analyze the Role of Active Listening in Consensus Building
- › 4.4 Evaluate Techniques for Facilitating Difficult Conversations
- › 4.5 Apply Problem-Solving Frameworks to Achieve Consensus
- › 4.6 Implement Collaborative Conflict Resolution Strategies in Group Settings

• 5 Measuring Engagement Outcomes and Impact — 6 classes

- › 5.1 Define Engagement Outcomes for Smart City Initiatives
- › 5.2 Identify Key Metrics for Measuring Impact
- › 5.3 Develop a Framework for Collecting Engagement Data
- › 5.4 Analyze Data to Evaluate Stakeholder Participation
- › 5.5 Synthesize Findings to Inform Future Strategy
- › 5.6 Create a Report on Engagement Impact for Stakeholders

• 1 Understanding the Concept of Smart Cities — 6 classes

- › 1.1 Define the Key Components of Smart Cities
- › 1.2 Explore the Benefits of Smart City Initiatives
- › 1.3 Identify the Challenges Faced by Smart Cities
- › 1.4 Analyze Successful Smart City Case Studies
- › 1.5 Discuss Stakeholder Roles in Smart City Development
- › 1.6 Develop a Strategic Action Plan for a Smart City Project

• 2 Key Components of Smart City Operating Models — 6 classes

- › 2.1 Identify the Core Elements of Smart City Operating Models
- › 2.2 Analyze the Role of Technology in Smart City Development
- › 2.3 Evaluate Stakeholder Engagement Strategies for Smart Cities
- › 2.4 Assess Governance Structures in Smart City Models
- › 2.5 Explore Funding Mechanisms for Smart City Initiatives
- › 2.6 Develop a Strategic Implementation Plan for Smart City Concepts

• 3 Stakeholder Engagement and Collaborative Governance — 6 classes

- › 3.1 Identify Key Stakeholders for Smart City Initiatives
- › 3.2 Analyze Stakeholder Interests and Influence in Governance
- › 3.3 Develop Inclusive Engagement Strategies for Community Participation
- › 3.4 Facilitate Collaborative Decision-Making Among Stakeholders
- › 3.5 Implement Communication Tools for Transparent Governance
- › 3.6 Evaluate the Impact of Stakeholder Engagement on Smart City Outcomes

• 4 Strategic Planning Frameworks for Smart Cities — 6 classes

- › 4.1 Define Key Components of Strategic Planning Frameworks for Smart Cities
- › 4.2 Analyze the Role of Stakeholders in Smart City Strategic Planning
- › 4.3 Evaluate Different Strategic Planning Models in Smart City Contexts
- › 4.4 Develop a Vision Statement for a Smart City Initiative
- › 4.5 Create an Action Plan Aligned with Smart City Strategic Objectives
- › 4.6 Implement Feedback Mechanisms to Enhance Smart City Strategic Plans

• 5 Evaluating and Measuring Smart City Performance — 6 classes

- › 5.1 Define Key Performance Indicators for Smart Cities
- › 5.2 Identify Data Sources for Performance Measurement
- › 5.3 Analyze and Interpret Smart City Performance Data
- › 5.4 Assess the Impact of Smart City Initiatives on Community Wellbeing
- › 5.5 Develop a Performance Evaluation Framework for Smart Cities
- › 5.6 Present Findings and Recommendations for Smart City Enhancements