

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 37123 — Indicators for Resilient Cities

*ISO Certification Programme*



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### LAPT — London Academy of Professional Training

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**Reference** MGT-SMC-37123 • ISO Management & Services

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AT A GLANCE

|               |                                                |
|---------------|------------------------------------------------|
| REFERENCE     | MGT-SMC-37123                                  |
| AWARD         | Certificate                                    |
| ASSESSMENT    | 430 marks — 258 to pass (60%)                  |
| PREREQUISITES | None                                           |
| VALIDITY      | Lifetime                                       |
| AWARDING BODY | LAPT — London Academy of Professional Training |

CURRICULUM

1

Data Analysis for Resilient Cities

5 chapters · 30 classes 65 marks

• 1 Understanding Resilient Cities: Key Concepts and Indicators — 6 classes

› 1.1 Define Resilience in Urban Contexts

› 1.2 Identify Key Characteristics of Resilient Cities

› 1.3 Explore ISO 37123 Framework for Indicators

› 1.4 Analyze Data Types Relevant to Urban Resilience

› 1.5 Evaluate Existing Indicators for Measuring Resilience

› 1.6 Apply Indicators to Case Studies of Resilient Cities

• 2 Data Collection Methods for Urban Resilience Assessment — 6 classes

› 2.1 Identify Key Data Collection Methods for Urban Resilience

› 2.2 Analyze Quantitative vs. Qualitative Data in Urban Contexts

› 2.3 Design Effective Surveys and Questionnaires for Community Feedback

› 2.4 Utilize Geographic Information Systems (GIS) for Spatial Data Analysis

› 2.5 Integrate Citizen Science in Urban Resilience Data Collection

› 2.6 Evaluate Data Quality and Reliability for Resilience Assessments

• 3 Analyzing Data for Urban Metrics: Techniques and Tools — 6 classes

› 3.1 Identify Key Urban Metrics for Resilience

› 3.2 Collect Data Using Appropriate Tools and Techniques

› 3.3 Analyze Qualitative Data for Urban Resilience Insights

› 3.4 Utilize Quantitative Methods for Urban Data Analysis

› 3.5 Visualize Data to Communicate Urban Resilience Findings

› 3.6 Apply Data-Driven Decision Making for Urban Planning

• 4 Visualizing Resilience Data: Effective Communication Strategies — 6 classes

› 4.1 Identify key resilience indicators for effective communication

› 4.2 Analyze data visualization techniques for urban resilience

› 4.3 Create impactful visualizations using resilience data

› 4.4 Employ storytelling to enhance resilience data presentations

› 4.5 Critique existing resilience data visualizations for improvement

› 4.6 Develop a communication strategy for stakeholder engagement

• 5 Implementing Data-Driven Strategies for Urban Resilience Enhancement — 6 classes

› 5.1 Identify Key Data Sources for Urban Resilience

› 5.2 Analyze Data Trends and Patterns in Urban Environments

› 5.3 Develop Data-Driven Indicators for Resilience Assessment

› 5.4 Integrate Stakeholder Feedback into Data Strategies

› 5.5 Create Actionable Insights from Data Analysis

› 5.6 Evaluate the Impact of Data-Driven Strategies on Urban Resilience

**• 1 Understanding the Need for Resilience Indicators in Smart Cities**

— 6 classes

- › 1.1 Define Resilience in the Context of Smart Cities
- › 1.2 Explore the Importance of Resilience Indicators
- › 1.3 Identify Key Components of Resilience in Urban Areas
- › 1.4 Analyze Global Examples of Resilience Indicators
- › 1.5 Discuss Stakeholder Roles in Developing Resilience Metrics
- › 1.6 Implement a Basic Framework for Evaluating City Resilience

**• 2 Frameworks and Methodologies for Evaluation in Urban Resilience** — 6 classes

- › 2.1 Define and Explain Urban Resilience Frameworks
- › 2.2 Identify Key Indicators for Evaluating Resilience
- › 2.3 Analyze Methodologies for Impact Assessment in Urban Contexts
- › 2.4 Develop a Logic Model for Urban Resilience Evaluation
- › 2.5 Assess Stakeholder Engagement Strategies in Resilience Planning
- › 2.6 Create an Evaluation Plan for a Resilient City Initiative

**• 3 Collecting and Analyzing Data for Resilience Indicators** — 6 classes

- › 3.1 Identify Key Resilience Indicators for Urban Planning
- › 3.2 Design Effective Surveys for Data Collection on Resilience
- › 3.3 Utilize Geographic Information Systems (GIS) for Data Mapping
- › 3.4 Analyze Qualitative Data from Community Feedback
- › 3.5 Employ Statistical Methods to Evaluate Resilience Data
- › 3.6 Present Findings and Recommendations for Policy Implementation

**• 4 Stakeholder Engagement and Collaborative Assessment**

Practices — 6 classes

- › 4.1 Identify Key Stakeholders for Resilient City Initiatives
- › 4.2 Analyze Stakeholder Interests and Influence in Assessment Processes
- › 4.3 Develop Effective Communication Strategies for Stakeholder Engagement
- › 4.4 Facilitate Collaborative Workshops for Assessing Community Needs
- › 4.5 Integrate Stakeholder Feedback into Impact Assessment Frameworks
- › 4.6 Evaluate the Effectiveness of Collaborative Assessment Methods

**• 5 Reporting, Monitoring, and Continuous Improvement of Resilience Indicators** — 6 classes

- › 5.1 Analyze the Purpose of Resilience Indicators
- › 5.2 Assess Current Reporting Mechanisms for Resilience Data
- › 5.3 Identify Key Metrics for Monitoring City Resilience
- › 5.4 Develop a Framework for Continuous Improvement of Indicators
- › 5.5 Evaluate Stakeholder Engagement Strategies in Resilience Reporting
- › 5.6 Propose Action Plans Based on Resilience Indicator Findings

**• 1 Understanding ISO Standards and Their Role in Smart Cities** — 6 classes

- › 1.1 Define ISO Standards and Their Importance in Smart Cities
- › 1.2 Explore the Framework of ISO 37123 for Resilient Urban Development
- › 1.3 Identify Key Indicators of Resilience in Urban Environments
- › 1.4 Analyze Case Studies of ISO 37123 in Action within Smart Cities
- › 1.5 Assess the Impact of ISO Standards on Urban Planning and Policy
- › 1.6 Develop a Strategic Plan to Implement ISO 37123 Indicators in Local Contexts

**• 2 Overview of ISO 37123: Indicators for Resilient Cities** — 6 classes

- › 2.1 Define Key Concepts in ISO 37123 and Resilience
- › 2.2 Identify the Purpose and Importance of Resilience Indicators
- › 2.3 Explore Core Indicators for Assessing Urban Resilience
- › 2.4 Analyze Case Studies of Cities Implementing ISO 37123
- › 2.5 Discuss Challenges and Opportunities in Measuring Resilience
- › 2.6 Develop a Plan for Integrating ISO 37123 Indicators in Local Policy

**• 3 Key Indicators for Assessing Urban Resilience** — 6 classes

- › 3.1 Define Urban Resilience and Its Importance
- › 3.2 Identify Key Indicators for Measuring Resilience
- › 3.3 Analyze Data Sources for Urban Resilience Indicators
- › 3.4 Assess the Impact of Socioeconomic Factors on Resilience
- › 3.5 Evaluate Technological Solutions for Monitoring Indicators
- › 3.6 Develop an Action Plan to Implement Resilience Indicators

**• 4 Implementing ISO 37123 in Smart City Frameworks** — 6 classes

- › 4.1 Explore the Principles of ISO 37123
- › 4.2 Identify Key Indicators for Resilient Cities
- › 4.3 Assess the Current Smart City Framework
- › 4.4 Align ISO 37123 Indicators with Smart City Goals
- › 4.5 Develop an Implementation Strategy for ISO 37123
- › 4.6 Evaluate Outcomes of ISO 37123 Implementation

**• 5 Evaluating and Advancing Smart City Resilience Using ISO 37123** — 6 classes

- › 5.1 Define Key Concepts of Smart City Resilience
- › 5.2 Explore the Importance of ISO 37123 for Urban Planning
- › 5.3 Identify Indicators for Measuring City Resilience
- › 5.4 Assess Current City Resilience Practices Using ISO 37123
- › 5.5 Develop a Framework for Advancing Resilience in Smart Cities
- › 5.6 Create an Action Plan for Implementing ISO 37123 Indicators

## • 1 Understanding Smart City Frameworks and ISO 37123 Standards

— 6 classes

- › 1.1 Define Smart City Frameworks and Their Importance
- › 1.2 Explore ISO 37123 and Its Key Principles
- › 1.3 Analyze Resilience Indicators in Urban Settings
- › 1.4 Compare Global Examples of Smart City Frameworks
- › 1.5 Assess the Role of Stakeholders in Smart City Projects
- › 1.6 Develop a Project Proposal Integrating ISO 37123 Standards

## • 2 Stakeholder Engagement and Collaboration in Smart City Projects — 6 classes

- › 2.1 Identify Key Stakeholders in Smart City Projects
- › 2.2 Analyze Stakeholder Needs and Expectations
- › 2.3 Develop Effective Communication Strategies for Stakeholder Engagement
- › 2.4 Facilitate Collaborative Decision-Making Processes
- › 2.5 Assess the Impact of Stakeholder Participation on Project Outcomes
- › 2.6 Create a Stakeholder Engagement Plan for Smart City Initiatives

## • 3 Risk Assessment and Management in Smart City Initiatives — 6 classes

- › 3.1 Identify Key Risk Factors in Smart City Projects
- › 3.2 Analyze the Impact of Risks on Project Outcomes
- › 3.3 Develop Risk Mitigation Strategies for Urban Initiatives
- › 3.4 Implement Risk Monitoring Techniques in Smart Projects
- › 3.5 Evaluate Risk Management Effectiveness in City Initiatives
- › 3.6 Create a Comprehensive Risk Management Plan for a Smart City Project

## • 4 Sustainable Practices and Innovation in Smart City Project Management — 6 classes

- › 4.1 Identify Sustainable Practices in Smart City Initiatives
- › 4.2 Analyze the Role of Innovation in Urban Resilience
- › 4.3 Evaluate Stakeholder Engagement Strategies for Smart Projects
- › 4.4 Implement Eco-Friendly Technologies in Urban Development
- › 4.5 Design a Project Plan Incorporating Sustainability Metrics
- › 4.6 Assess the Impact of Smart City Projects on Community Well-Being

## • 5 Measuring Success: Key Performance Indicators and Evaluation — 6 classes

- › 5.1 Define Key Performance Indicators for Smart Cities
- › 5.2 Explore the Importance of Evaluation in Project Management
- › 5.3 Identify Metrics for Measuring Urban Resilience
- › 5.4 Develop a Framework for Data Collection and Analysis
- › 5.5 Assess the Impact of Smart City Initiatives on Community Well-being
- › 5.6 Present Findings and Make Data-Driven Recommendations

## • 1 Understanding Resilience in Urban Contexts — 6 classes

- › 1.1 Define Resilience in Urban Contexts
- › 1.2 Identify Key Indicators of Urban Resilience
- › 1.3 Analyze Case Studies of Resilient Cities
- › 1.4 Evaluate Challenges in Urban Resilience Planning
- › 1.5 Develop Strategies for Enhancing Urban Resilience
- › 1.6 Present a Resilience Action Plan for Local Contexts

## • 2 Frameworks and Standards for Urban Resilience — 6 classes

- › 2.1 Explore Key Concepts of Urban Resilience
- › 2.2 Examine ISO 37123 Standards in Detail
- › 2.3 Identify Indicators for Measuring Resilience
- › 2.4 Analyze Case Studies of Resilient Cities
- › 2.5 Develop a Framework for Urban Resilience Planning
- › 2.6 Create Actionable Strategies for Implementing Resilience Standards

## • 3 Strategic Leadership Roles in Urban Development — 6 classes

- › 3.1 Identify Key Strategic Leadership Roles in Urban Development
- › 3.2 Analyze the Impact of Leadership Styles on Urban Resilience
- › 3.3 Explore Collaboration Strategies Among Urban Stakeholders
- › 3.4 Develop a Vision for Sustainable Urban Development
- › 3.5 Evaluate Case Studies of Successful Urban Leadership
- › 3.6 Create an Action Plan for Implementing Resilient Leadership Practices

## • 4 Effective Stakeholder Engagement Strategies — 6 classes

- › 4.1 Identifying Key Stakeholders in Urban Development
- › 4.2 Assessing Stakeholder Interests and Influence
- › 4.3 Crafting Effective Communication Strategies for Engagement
- › 4.4 Facilitating Collaborative Workshops for Stakeholder Input
- › 4.5 Measuring the Impact of Stakeholder Engagement Efforts
- › 4.6 Developing a Stakeholder Engagement Action Plan

## • 5 Measuring and Evaluating Urban Resilience Indicators — 6 classes

- › 5.1 Define Urban Resilience and Its Importance in City Planning
- › 5.2 Identify Key Indicators for Measuring Urban Resilience
- › 5.3 Analyze the Existing Frameworks for Urban Resilience Evaluation
- › 5.4 Collect Data for Urban Resilience Indicators Effectively
- › 5.5 Evaluate Case Studies of Urban Resilience Implementation
- › 5.6 Develop a Strategic Action Plan for Enhancing Urban Resilience

**• 1 Foundations of Urban Resilience: Concepts and Importance** — 6 classes

- › 1.1 Define Urban Resilience: Key Concepts and Terminology
- › 1.2 Explore the Importance of Urban Resilience in Modern Societies
- › 1.3 Identify Challenges to Urban Resilience: Case Studies and Examples
- › 1.4 Examine the Role of Stakeholders in Enhancing Urban Resilience
- › 1.5 Assess Indicators of Urban Resilience: Understanding ISO 37123
- › 1.6 Develop Strategies for Improving Urban Resilience in Local Communities

**• 2 Key Indicators of Resilience: Metrics and Measurement** — 6 classes

- › 2.1 Identify Key Metrics for Urban Resilience
- › 2.2 Analyze Data Sources for Resilience Indicators
- › 2.3 Evaluate the Importance of Community Engagement in Resilience Measurement
- › 2.4 Apply Scenario Planning to Assess Resilience Indicators
- › 2.5 Develop a Resilience Indicator Dashboard for Reporting
- › 2.6 Implement a Strategic Action Plan Based on Resilience Data

**• 3 ISO 37123 Standards: Framework and Implementation** — 6 classes

- › 3.1 Explore the ISO 37123 Framework for Urban Resilience
- › 3.2 Identify Key Indicators for Measuring Urban Resilience
- › 3.3 Analyze Case Studies of ISO 37123 Implementation
- › 3.4 Discuss Challenges in Implementing Urban Resilience Standards
- › 3.5 Evaluate Tools and Techniques for Monitoring Resilience Indicators
- › 3.6 Create an Action Plan for Adopting ISO 37123 in Local Context

**• 4 Challenges and Strategies for Building Resilient Cities** — 6 classes

- › 4.1 Identify Key Challenges Facing Urban Resilience
- › 4.2 Analyze the Impact of Climate Change on Cities
- › 4.3 Explore Community Engagement Strategies for Resilience
- › 4.4 Assess Technological Innovations for Urban Sustainability
- › 4.5 Develop Strategies to Mitigate Urban Risk Factors
- › 4.6 Create a Resilience Action Plan for Local Communities

**• 5 Case Studies and Best Practices in Urban Resilience** — 6 classes

- › 5.1 Analyze Successful Urban Resilience Case Studies
- › 5.2 Identify Key Indicators of Resilience in Cities
- › 5.3 Evaluate Best Practices for Enhancing Urban Resilience
- › 5.4 Compare Global Approaches to Urban Resilience Challenges
- › 5.5 Create a Framework for Assessing Urban Resilience Initiatives
- › 5.6 Present Innovative Solutions for Local Urban Resilience Issues