

Planning for Sustainable Urban Development

Madrid (Spain)

5 - 9 May 2025

UK Training

PARTNER



Planning for Sustainable Urban Development

Code: NC28 From: 5 - 9 May 2025 City: Madrid (Spain) Fees: 4200 Pound

Introduction

Sustainable Urban Development training is focused on planning, development and sustainability of urban centers which are existing or being developed, as they all share same or similar characteristics, which are: high concentration of people on a limited space, high requirement for transportation, dependence on outside resources and creation of pollution and waste.

As the challenges mount the sustainability of these urban centers is challenged as they need to invest more and more in tackling the issues. This training course is designed to present the participants with the solutions for these problems with a focus on developing urban environments in a way that will make them sustainable in terms of living, transportation, climate-change and finances.

Course Objectives

- Properly assess demographic of the cities
- Adequately determine possible settlement transitions associated with urban development
- Determine policies for ensuring energy security in urban development
- Chart and develop pathways to sustainable road transport
- Recognize influence of automated rail on urban mobility
- Develop methods for ensuring financial sustainability of urban development

Course Outline

Day 1

Sustainable Urban Development Introduction

- Cities of the Past and Cities of the Future
- Housing
- Transportation
- Infrastructure
- Ecology
- Policy and Governance of Urban Planning
- Examples of Sustainable Urban Planning for the Cities

Day 2

Influence of Urban Growth on Sustainability



- Growth Models
- Urban Demographics and Settlement
- Capacity Planning for Urban Infrastructure
- Scarcity of Natural Resources for Urban Centers
- Sustainable Living Environment Planning
- Dealing with the Remnants of the Past

Day 3

The Sustainability of Economics

- Housing Bubbles
- Risky Models of Urban Development Financing
- Painful Lessons of Economic Slowdown
- Financial Sustainability of Urban Development
- Ensuring the Financing of Critical Services

Day 4

Sustainable Mobility

- Sustainable Road Transport
- Capacity Planning
- Parking Issues
- Reserve Capacity
- Rail Transport
- Water Transport
- Air Transport
- Multimodal Transport
- Resources and Delivery Planning

Day 5

Sustainable Urban Development in the Age of Digital Technologies

- Use of Data for Urban Planning
- Development of Smart Cities
- Use of Simulation for Creating the Digital Twins of the Cities
- Centralized Traffic Monitoring and Control
- Assurance of Compliance
- Maintenance Sustainability



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