Smart Cities: Planning & Development

Duration: 4 Days

Language: en

Course Code: IND04 - 125

Objective

Upon completion of this course, participants will be able to:

- Understand smart city concepts and principles.
- Develop strategies for smart infrastructure.
- Enhance urban mobility and energy systems.
- Implement IoT and big data solutions.
- Foster public sector innovation and citizen engagement.

Audience

This course is intended for

- Urban planners and designers
- Government officials and policymakers
- Technology and innovation professionals

- Environmental and sustainability consultants
- Project managers in urban development

Training Methodology

This course uses a variety of adult learning styles to aid full understanding and comprehension. Including:

- Interactive lectures and discussions
- Real-world case studies
- Group projects and collaborative exercises
- Practical workshops on smart city tools

Summary

This course explores the design and development of smart cities, emphasising the integration of innovative technologies and sustainable practices. Participants will learn about the principles of smart urban infrastructure, public sector innovation, and the role of IoT and big data in creating efficient, livable cities. The course includes interactive lectures, case studies, and practical workshops.

Course Content & Outline

Section 1: Introduction to Smart Cities

- Definitions and key concepts
- Drivers of smart city development
- Case studies of global smart cities

Section 2: Smart Urban Infrastructure

- Principles of smart urban design
- Integrating technology with infrastructure
- Managing transitions from legacy systems

Section 3: Public Sector Innovation

- Role of government in smart city development
- E-government and digital governance
- Innovation strategies for the public sector

Section 4: IoT and Big Data in Smart Cities

- Overview of IoT applications
- Big data analytics for urban management

- Privacy and security considerations

Section 5: Smart Mobility and Energy Systems

- Smart transportation solutions
- Sustainable urban energy systems
- Case studies on mobility and energy innovations

Section 6: Citizen Engagement and Smart Living

- Enhancing quality of life through technology
- Citizen-centric smart city initiatives
- Measuring and improving citizen satisfaction

Certificate Description

Upon successful completion of this training course, delegates will be awarded a Holistique Training Certificate of Completion. For those who attend and complete the online training course, a Holistique Training e-Certificate will be provided.

Holistique Training Certificates are accredited by the British Accreditation Council (BAC) and The CPD Certification Service (CPD), and are certified under ISO 9001, ISO 21001, and ISO 29993 standards.

CPD credits for this course are granted by our Certificates and will be reflected on the Holistique Training Certificate of Completion. In accordance with the standards of The CPD Certification Service, one CPD credit is awarded per hour of course attendance. A maximum of 50 CPD credits can be claimed for any single course we currently offer.

Categories

Construction & Real Estate, Engineering

Tags

Sustainability , Smart City , City , Urban Planning , Urban Develoopment

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