Beyond Smart Cities

New Developments in Technology and Design

Introduction

Since over half of the world's population lives in urban areas, there is growing interest in creating smarter, safer, and more sustainable cities that are responsive to the needs of their residents, focused on protecting the environment and enhancing the quality of life for those who live there. This training course addresses these issues.

While most smart city solutions concentrate on digital improvements to already-existing urban infrastructure, this training course goes beyond optimisations to show how disruptive technology can significantly enhance modern city planning, design, and management for a more resilient and dynamic future. The delegates will be given an overview of the ways in which innovative urban systems, artificial intelligence (AI), data analytics, real-time simulations, and predictive urban design can be used to build more high-performing, livable, and entrepreneurial urban communities that are in harmony with the environment and the needs of their constituents.

The training course Beyond Smart Cities: New Developments in Technology and Design in Course N Carry will emphasise:

- The fundamental components of smart city construction.
- Smart urban development strategies and concepts for smart cities.
- Emerging disruptive technologies and their use in the planning and administration of smart cities.
- The way cities will move in the future.
- Putting citizens, sustainability, and resilience first.
- Developments in artificial intelligence, simulation, digital twins, data analysis, and visualisation, including virtual and augmented reality.

Objectives

Following enrolment in this training session on Beyond Smart Cities: New Developments in Technology and Design, the participant will be qualified to:

- Make better use of technology advancements in planning and design.
- Introduce laws that make living in cities better.
- Create sensible land-use plans.
- Improve service accessibility and urban mobility.
- Describe the difficulties and novel strategies of modern urban design.

Training Methodology

A range of tried-and-true adult learning strategies will be employed in this Beyond Smart Cities: New Developments in Technology and Design training course to guarantee optimal absorption, retention, and understanding of the material offered. Examples of digital transformation strategies, problems and hazards associated with it, examples of its implementation, tools and approaches, and implementation tips and tricks are all included in this. Additionally, there will be a presentation and exploration of the tools for enhanced land use planning, environmental analysis, and disruptive digital technologies. Participants will receive practical insights that can be applied to real-world problems in addition to academic information thanks to this interactive training methodology.

Organizational impacts

Organisations must be prepared to respond to the new issues that cities are encountering as well as the quickly developing technology that have the potential to offer improved solutions and insights into these issues.

Businesses will gain a great deal from:

- Enhancing their population's talent.
- Acquiring the capacity to implement innovative planning and development methods and technologies.
- Recognising modeling and assessment of urban effect.
- The capacity to use artificial intelligence and data analysis.
- Transforming strategic goals to enhance residents' lives into a workable reality.

Personal Imapct

Professionals with an interest in socio-technical infrastructure, urban planning, and design who are looking to alter cities for a more dynamic, sustainable, and bright future are the target audience for this training course. The technology and data-focused training course is especially pertinent to anyone working on developing, funding, and implementing smart city solutions. In light of this, the training will assist them in providing better and more fruitful solutions, assisting them in:

- Expand their understanding of the techniques and technology used in contemporary Smart City planning and design.
- Reach their full potential in the data-driven, computational age.
- Increase their knowledge of the software used to do jobs.
- Cut down on how long it takes to evaluate and contrast solutions.
- Lower expenses and friction in the smart city solution management process.

Who should attend?

This training programme is intended for those who work in public and private sector organisations that make decisions, analyse data, and design with the goal of advancing smart city development.

A wide spectrum of workers can benefit immensely from this Course N Carry Beyond Smart Cities: New Developments in Technology and Design training course, but in particular:

- Both architects and urban designers.
- Planners for cities.
- Developers.
- Public Sector Experts.
- Government Employees.
- City Officials in Charge.
- Technologists and data scientists.
- Personnel for Strategic Development.
- Specialists in mobility.

Course Outline

Day 1

Technology and Principles of Smart City Design

- Smart City Urban Design and Planning
- Digital Citizens' Rights
- Goals of Smart Cities
- Modernising Current Urban Areas to Intelligent Cities
- Instruments for Creating New Smart Cities

Day 2

Availability and Mobility

- Human-centered Cities
- The City in 15 Minutes
- Mobility as a Service (MaaS)
- Needs and Restraints for Private Transportation
- Choice and Freedom of Movement
- Cutting Down on Traffic

Day 3

Urban design with IOT technologies

- An Overview of IoT
- Intelligent Energy
- Astute Public Safety
- Intelligent Medical
- Intelligent Setting

Day 4

Long-Term Remedies

- Generation and Preserving of Energy
- Management of Wastes
- The Economy in Circles
- Water Resources Management
- Decarbonisation.

Day 5

Smart Cities' Future

- Facilitators & Drivers
- Important Abilities and Capabilities
- The Appeal of the City
- Start Cities' profitability
- Managing the expansion of smart cities

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