

SMART CITIES & DIGITAL INFRASTRUCTURE

Kuala Lumpur - Malaysia
27 - Apr 2026 - 01 - May 2026
\$5,800

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TRAINING CENTER



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Introduction

As urban areas continue to expand at unprecedented rates, the need for smarter, more efficient cities has become paramount. The intersection of digital infrastructure and urban planning offers cities the opportunity to evolve into smart, sustainable environments that enhance the quality of life for their citizens. Gentex Training Center proudly presents the 5-day course on Smart Cities & Digital Infrastructure, designed to provide participants with the knowledge and tools to understand the key components that drive the development of smart cities. From integrating advanced digital technologies to managing urban data systems, this course delves deeply into the transformative potential of digital infrastructure in shaping the future of cities. Participants will gain practical insights and strategic approaches needed to implement these innovations in urban settings, ensuring cities not only grow but thrive.

Smart Cities & Digital Infrastructure Course Objectives

- Understand key concepts of smart cities, including how digital technologies are used to improve urban living conditions.
- Analyze the role of data management in smart city ecosystems and how digital infrastructure supports real-time decision-making.
- Examine innovative technologies such as IoT, AI, and big data that are essential for developing smarter urban environments.
- Explore sustainability strategies that are integral to smart cities, including energy efficiency, waste management, and reducing environmental impact.
- Assess the socio-economic impact of smart cities, focusing on how digital solutions can address urban challenges like traffic congestion, pollution, and public safety.
- Design strategies for integrating smart technologies into existing urban infrastructures in a cost-effective and scalable manner.
- Collaborate with stakeholders across sectors to ensure the smooth implementation of digital infrastructure projects.



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Who Should Take This Course

- Urban planners and city officials
- IT professionals involved in smart infrastructure projects
- Civil engineers working in urban development
- Sustainability consultants
- Policy makers focusing on smart cities
- Project managers and team leads in technology and urban planning

Smart Cities & Digital Infrastructure Course Outlines

Day 1: Introduction to Smart Cities and Digital Infrastructure

- Defining the concept of a smart city: core principles and features
- Understanding the evolution of cities from traditional to smart
- Key technologies powering smart cities: IoT, AI, 5G, and big data
- Overview of digital infrastructure and its importance in urban ecosystems

Day 2: Integrating IoT and Data Management in Urban Spaces

- Role of IoT in transforming city operations: smart grids, transportation, and public safety
- Managing urban data: real-time data collection, storage, and processing
- Data privacy and cybersecurity challenges in smart cities
- Case study: Successful IoT implementation in global smart cities





Day 3: Digital Infrastructure and Urban Mobility Solutions

- Impact of digital infrastructure on transportation systems: smart traffic management, autonomous vehicles, and public transport innovations
- Exploring the role of AI and machine learning in optimizing urban mobility
- Addressing urban congestion and pollution through smart infrastructure
- Real-world application: Smart mobility projects across various cities

Day 4: Sustainable Urban Development Through Digital Infrastructure

- Integrating renewable energy and smart grids into city planning
- Waste management and water resource optimization through digital solutions
- Enhancing environmental monitoring using smart sensors
- Planning for climate resilience and long-term sustainability

Day 5: Governance, Policy, and Collaboration in Smart City Projects

- Role of government and public policy in driving smart city initiatives
- Public-private partnerships in funding and implementing smart infrastructure
- Engaging citizens in smart city development: tools for participation and feedback
- Final project: Designing a digital infrastructure plan for a smart city

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Conclusion

By successfully completing the Smart Cities & Digital Infrastructure course with Gentex Training Center, participants will gain the knowledge and skills required to lead and implement smart city projects. You will leave equipped to navigate the complexities of digital infrastructure and urban planning, ensuring that your city can leverage cutting-edge technology to become more sustainable, efficient, and livable.

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