



Smart City Logistics and Urban Distribution Planning Training Course

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كوالالمبور

للشخص الواحد) € 5200

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:Course Introduction / Overview

The rapid expansion of urban centers and the surge in e-commerce have created unprecedented challenges for city logistics, demanding a paradigm shift from traditional distribution models to intelligent, sustainable systems. This course addresses the critical intersection of urban planning and supply chain management within the smart city framework. It provides a comprehensive exploration of modern urban logistics, covering everything from last-mile delivery optimization to the integration of advanced technologies like IoT and AI. Drawing upon the foundational principles discussed by leading academics like Dr. Alan McKinnon in works such as "Decarbonizing Logistics", participants will learn to design and implement efficient, resilient, and environmentally friendly freight transport systems. BIG BEN Training Center has developed this program to equip professionals with the strategic foresight and practical skills needed to navigate the complexities of urban freight, manage logistics networks effectively, and contribute to the development of smarter, more livable cities. This training course is an essential journey for those .aiming to lead the transformation of urban distribution and build the logistics infrastructure of tomorrow

:Target Audience / This training course is suitable for

- .Logistics and Supply Chain Managers
- .Urban Planners and City Officials
- .Transportation Planners and Engineers
- .Operations Directors
- .Public Policy Advisors
- .Technology and Innovation Consultants
- .Fleet Managers
- .E-commerce Operations Specialists
- .Sustainability Officers
- .Real Estate and Infrastructure Developers

:Target Sectors and Industries

- .Logistics and Transportation Services
- .Retail and E-commerce
- .Government and Public Sector Agencies
- .Urban Planning and Development Consultancies
- .Automotive and Autonomous Vehicle Technology
- .Information Technology and Data Analytics
- .Real Estate and Smart Infrastructure
- .Waste Management and Circular Economy
- .Consulting and Professional Services

:Target Organizations Departments



- Supply Chain and Logistics
- Urban Planning and Development
- Operations Management
- Transportation and Fleet Management
- Information Technology (IT) and Data Science
- Public Works and Infrastructure
- Policy and Regulation
- (Sustainability and Corporate Social Responsibility (CSR)
- Strategic Planning
- Procurement and Distribution

:Course Offerings

:By the end of this course, the participants will have able to

- .Analyze the core challenges and opportunities in modern urban logistics
- .Design efficient last-mile delivery strategies for dense urban environments
- .Integrate IoT, AI, and data analytics for logistics network optimization
- .Develop sustainable urban freight policies and green logistics initiatives
- .Evaluate the role of autonomous vehicles and drones in future distribution models
- .Formulate strategies for implementing urban consolidation centers
- .Master the principles of smart city infrastructure planning for logistics
- .Navigate the regulatory and governance frameworks of urban freight transport
- .Enhance supply chain visibility and resilience in an urban context
- .Lead strategic projects aimed at transforming city distribution systems

:Course Methodology

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical, ensuring that participants can directly apply their learning to real-world challenges. This course moves beyond traditional lectures by incorporating a dynamic blend of expert-led presentations, in-depth case study analyses of pioneering smart cities, and collaborative group workshops. Participants will engage in simulation exercises where they design logistics solutions for hypothetical urban scenarios, fostering critical thinking and problem-solving skills. Interactive sessions will encourage open dialogue and the sharing of professional experiences, creating a rich learning environment. Team-based projects will focus on developing a comprehensive urban logistics plan, from initial assessment to final implementation strategy. Continuous feedback from the instructor and peers is a cornerstone of the process, enabling participants to refine their ideas and deepen their understanding. The program emphasizes a hands-on approach, ensuring that theoretical concepts are firmly grounded in practical application and strategic implementation.

:(Course Agenda (Course Units

Unit One Foundations of Urban Logistics and Smart Cities

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Urban freight transport and its evolution •



- The concept of the smart city and its impact on logistics
- Key challenges in urban distribution: congestion, pollution, and costs
- Understanding the dynamics of last-mile delivery
- The role of stakeholders in the urban logistics ecosystem
- Environmental and social impacts of inefficient city logistics
- Core principles of logistics network design for urban areas

Unit Two Technology and Innovation in Urban Distribution

- The role of the Internet of Things (IoT) in real-time tracking and visibility
- Applying Artificial Intelligence (AI) and Machine Learning for demand forecasting
- The potential of autonomous vehicles and delivery drones
- Smart warehousing and automated sorting in urban hubs
- Blockchain applications for supply chain security and transparency
- Data analytics for route optimization and traffic prediction
- Exploring crowd-shipping and gig economy logistics models

Unit Three Sustainable Urban Freight and Green Logistics

- Principles of green logistics and sustainable supply chain management
- Strategies for reducing the carbon footprint of urban deliveries
- The role of electric vehicles (EVs) and alternative fuels in freight
- Implementing circular economy concepts in city logistics
- Noise pollution and other environmental impacts of urban freight
- Designing and managing low-emission zones for freight
- Best practices in sustainable packaging and waste reduction

Unit Four Policy, Planning, and Governance for Smart Logistics

- The role of municipal governments in regulating urban freight
- Developing effective public-private partnerships (PPPs)
- Planning and implementing Urban Consolidation Centers (UCCs)
- Off-hour delivery programs and their strategic benefits
- Land-use planning and its connection to logistics efficiency
- Data sharing policies and governance for smart logistics
- Case studies of successful urban freight policies from around the world

Unit Five Future-Proofing Urban Logistics: Strategy and Implementation

- Developing a holistic urban logistics strategy
- Integrating logistics planning with overall urban development goals
- Predictive analytics for future-proofing logistics networks
- Building resilient and adaptive urban supply chains
- Change management for implementing new logistics technologies



?Qualifications required for registering to this course-

.There are no requirements

How long is each daily session, and what is the total number of training hours for ?the course

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and .interactive activities, bringing the total duration to 20 - 25 training hours

:Something to think about

As urban populations grow, how can cities balance the demand for instant delivery with the need for sustainable, ?livable public spaces

What unique qualities does this course offer compared to other ?courses

This training course distinguishes itself through its holistic and forward-looking interdisciplinary framework, which integrates logistics management not just with technology, but with urban planning, public policy, and sustainability. Unlike programs that focus narrowly on operational tools, this course emphasizes strategic foresight, teaching participants how to design and lead long-term transformations in urban distribution systems. It moves beyond theory by immersing participants in real-world case studies and complex problem-solving simulations that mirror the challenges faced by today's city planners and logistics managers. The curriculum is uniquely structured to foster a deep understanding of the socio-technical systems at play, encouraging participants to consider the economic, environmental, and social impacts of their decisions. By focusing on the convergence of policy, innovation, and sustainable practices, the course equips professionals not just with skills for today, but with the strategic mindset required to build the resilient, efficient, and human-centric urban logistics networks of the .future