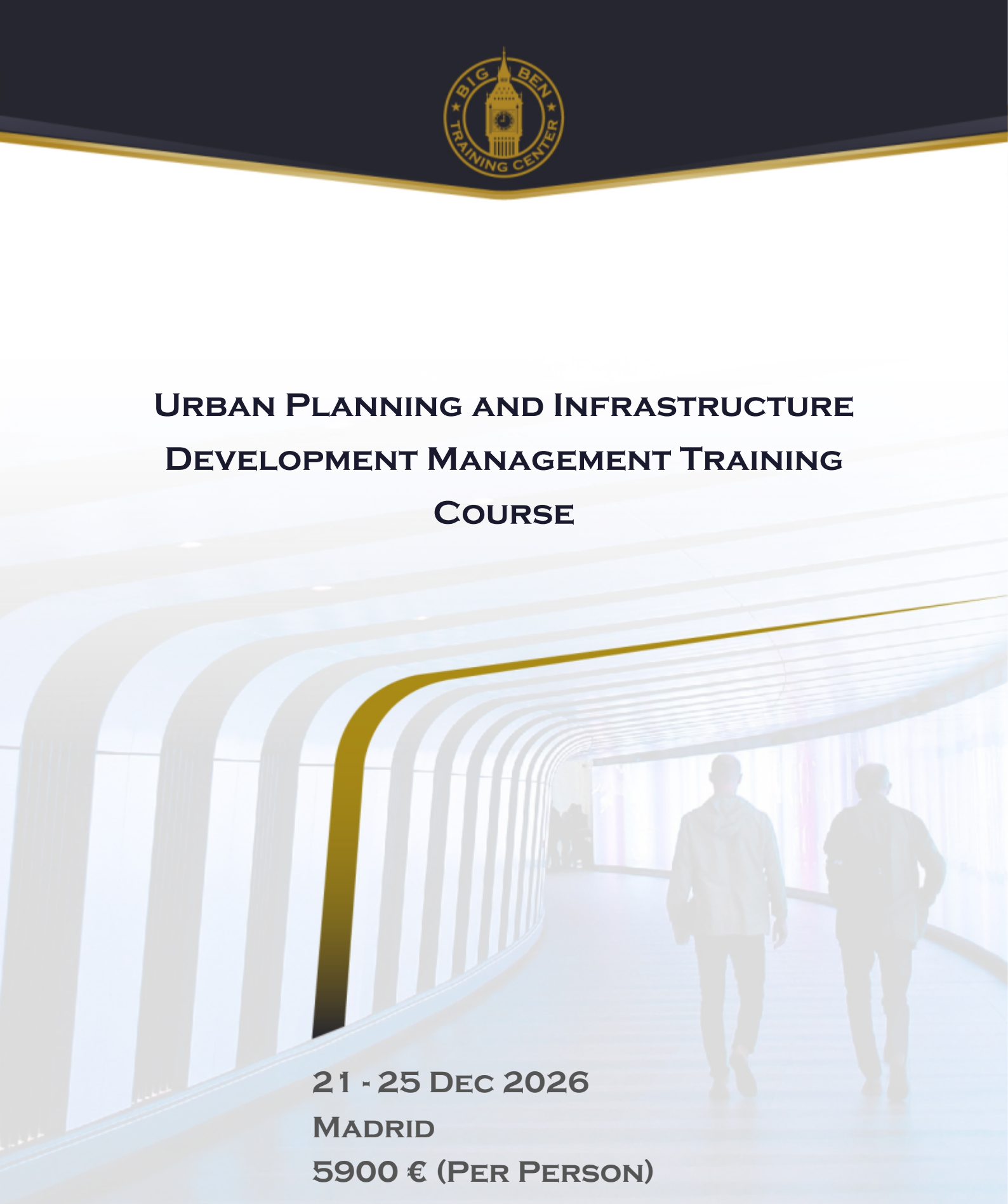
Urban Planning and Infrastructure Development Management Training Course



21 - 25 Dec 2026

Madrid

5900 € (Per Person)

Ref: #GOV5551_104889

Course Introduction / Overview:

This comprehensive training course provides a deep dive into the interconnected disciplines of urban planning and infrastructure development management. In an era of rapid urbanization and climate change, the need for skilled professionals who can design, manage, and sustain the cities of the future has never been more critical. This program, offered by BIG BEN Training Center, is meticulously designed to bridge the gap between theoretical knowledge and practical application. Participants will explore the foundational principles of urbanism, drawing on the influential ideas of thinkers like Jane Jacobs, whose work "The Death and Life of Great American Cities" revolutionized our understanding of urban ecosystems. The curriculum covers everything from land use planning and zoning regulations to the complexities of financing and managing large-scale infrastructure projects, including transportation, water, and energy systems. We will examine sustainable urban development models, smart city technologies, and strategies for building resilient communities. This course equips participants with the essential tools and strategic insights needed to navigate the challenges of modern urban development and lead projects that foster economic vitality, social equity, and environmental sustainability. It is an essential program for anyone committed to shaping better urban futures.

Target Audience / This training course is suitable for:

- Urban Planners and City Planning Professionals.
- Civil Engineers and Infrastructure Project Managers.
- Government Officials and Public Sector Administrators.
- Real Estate Developers and Investment Analysts.
- Architects and Urban Designers.
- Environmental Consultants and Sustainability Officers.
- Policy Makers and Legislative Staff.
- Community Development Managers.
- Transportation and Logistics Planners.

Target Sectors and Industries:

- Government and Public Administration.
- Real Estate and Property Development.
- Construction and Engineering.
- Transportation and Logistics.
- Energy and Utilities.
- Environmental Consulting and Services.
- Financial Services and Investment Banking.
- Non-Profit and Community Organizations.
- Telecommunications and Technology.

Target Organizations Departments:

- Urban Planning and Development.
- Public Works and Engineering.
- Project Management Office (PMO).
- Strategic Planning and Policy.
- Capital Projects and Infrastructure Management.
- Real Estate and Asset Management.
- Sustainability and Environmental Affairs.
- Finance and Investment.
- Regulatory Compliance and Legal Affairs.

Course Offerings:

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

- Analyze the core principles and historical evolution of urban planning.
- Develop comprehensive land use plans and zoning strategies.
- Master the project management lifecycle for large-scale infrastructure projects.
- Evaluate various infrastructure financing models, including public-private partnerships (PPPs).
- Integrate sustainable design and green infrastructure principles into urban projects.
- Apply GIS and other technologies for effective urban analysis and planning.
- Formulate strategies for creating resilient cities that can withstand environmental and social shocks.
- Navigate the legal and regulatory frameworks governing urban development.
- Conduct effective stakeholder engagement and community participation processes.
- Assess the environmental and social impacts of development projects.
- Develop and implement smart city initiatives and digital infrastructure plans.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical. We believe that adult learning is most effective when it combines expert knowledge with hands-on application. This course moves beyond traditional lectures to create a dynamic learning environment. Participants will engage with real-world case studies of successful and challenging urban development projects from around the globe, allowing them to analyze complex problems and strategic solutions. Interactive workshops and group exercises will encourage collaborative problem-solving and the exchange of diverse perspectives. The program incorporates simulation activities where participants will manage a virtual infrastructure project, making critical decisions on budgeting, scheduling, and stakeholder management. Expert-led discussions and Q&A sessions provide a platform for deep dives into specific topics and challenges. Continuous feedback from the instructor and peers is a core component, ensuring that participants can refine their understanding and skills throughout the five-day program. This blended approach ensures that attendees not only grasp the theoretical concepts but also develop the confidence and competence to apply them directly in their professional roles.

Course Agenda (Course Units):

Unit One: Foundations of Urban Planning and Development

- Introduction to Urban Planning Theory and History.
- The Role of a Planner in Modern Society.
- Key Components of a Comprehensive Urban Plan.
- Understanding Urban Form and Structure.
- Social and Economic Dimensions of Urbanization.
- Legal and Institutional Frameworks for Planning.
- Introduction to Sustainable Urbanism and Development Goals.

Unit Two: Land Use Planning and Urban Design

- Principles of Land Use and Zoning Regulations.
- Site Planning and Analysis Techniques.
- Urban Design Principles for Creating Livable Spaces.
- Introduction to Geographic Information Systems (GIS) for Planners.
- Master Planning and Strategic Area Development.
- Transportation-Oriented Development (TOD) Concepts.
- Public Space Design and Management.

Unit three: Infrastructure Systems and Management

- Planning and Management of Transportation Networks.
- Water Supply, Sanitation, and Wastewater Management Systems.
- Energy Infrastructure and the Transition to Renewables.
- Digital Infrastructure and Smart City Technologies.
- Solid Waste Management and Circular Economy Principles.
- Green Infrastructure for Climate Resilience and Livability.
- Infrastructure Asset Management and Lifecycle Costing.

Unit Four: Project Management and Financing for Urban Development

- The Project Management Lifecycle for Infrastructure Projects.
- Feasibility Studies and Project Appraisal Techniques.
- Public Sector Budgeting and Capital Improvement Planning (CIP).
- Public-Private Partnerships (PPPs) and Other Financing Models.
- Risk Management in Urban Development Projects.
- Contract Management and Procurement Strategies.
- Stakeholder Management and Community Engagement.

Unit Five: Future Trends, Sustainability, and Resilience

- Strategies for Building Urban Resilience to Climate Change.
- Implementing Smart City Concepts and Data-Driven Governance.
- Affordable Housing Policy and Urban Regeneration.
- Environmental Impact Assessment (EIA) for Urban Projects.
- Social Equity and Inclusive Urban Development.
- The Future of Urban Mobility and Autonomous Vehicles.
- Course Review, Capstone Discussion, and Action Planning.

FAQ:

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:

How can urban planners effectively balance the competing demands of economic growth, social equity, and environmental sustainability in rapidly densifying cities?

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

This course distinguishes itself through its holistic and integrated approach, seamlessly blending the distinct yet inseparable fields of urban planning theory and infrastructure development management. Unlike programs that focus narrowly on either design principles or project execution, this training provides a comprehensive 360-degree view, equipping participants to think and act as strategic leaders in urban development. Its curriculum is forward-looking, placing significant emphasis on contemporary challenges and future trends such as climate resilience, smart city implementation, and the circular economy, ensuring the skills learned are relevant for tomorrow's urban landscape. The methodology prioritizes practical application over passive learning, using a rich tapestry of international case studies, complex simulations, and interactive workshops. This allows participants to grapple with the real-world trade-offs and decisions that define urban projects. Furthermore, the course content is designed to foster a deep understanding of the financial, social, and political dynamics that influence urban outcomes, moving beyond purely technical instruction to cultivate the strategic judgment necessary for navigating the complex ecosystem of urban development and creating lasting value for communities.