

Transportation and Traffic Planning

Barcelona (Spain)

4 - 15 August 2025

UK Traininig

PARTNER



Transportation and Traffic Planning

Code: NC28 From: 4 - 15 August 2025 City: Barcelona (Spain) Fees: 8600 Pound

Introduction

Transportation and traffic planning is a crucial element in urban development, impacting the efficiency, safety, and sustainability of cities. This course provides a comprehensive and practical overview of the integrated system for traffic planning and design. Participants will gain an in-depth understanding of the latest concepts, tools, and techniques in transportation and traffic management, exploring the interaction between transportation systems and urban environments, the impact of emerging technologies, and the principles of designing sustainable and resilient transportation networks.

Course Objectives

- Understand the fundamental principles of transportation planning and traffic design.
- Analyze the latest trends and technologies in traffic and transportation systems.
- Develop comprehensive traffic management plans using advanced planning tools and techniques.
- Evaluate the environmental, social, and economic impacts of transportation projects.
- Design sustainable and resilient transportation solutions for urban areas.
- Apply data analytics and simulation models to optimize traffic flow and reduce congestion.
- Integrate smart technologies and mobility solutions into transportation planning and design.
- Address challenges related to international traffic and transportation safety and policy.

Course Outlines

Day 1: Introduction to Transportation and Traffic Planning

- Overview of transport and traffic systems and their importance.
- Historical evolution of traffic planning.
- Key concepts and terminology in traffic management.
- Stakeholders in transportation planning.

Day 2: Urban Transportation Systems

- Types of urban transportation systems.
- Characteristics and components of effective traffic management.
- Case studies of successful urban transportation networks.

Day 3: Planning Tools and Techniques

- Utilizing Geographic Information Systems GIS in traffic planning and design.
- Travel demand modeling for transportation planning.



- Traffic simulation software for traffic incident management training.

Day 4: Sustainable Transportation Planning

- Principles of sustainable transportation.
- Strategies for reducing environmental impacts.
- Integrating public transport and non-motorized transport in a traffic management plan.

Day 5: Smart Transportation Technologies

- Emerging technologies in transportation e.g., autonomous vehicles, electric vehicles.
- Intelligent Transportation Systems ITS.
- The role of big data and IoT in transportation planning and technology.

Day 6: Traffic Flow and Congestion Management

- Theories of traffic flow.
- Techniques for congestion management and advanced traffic management systems.
- Traffic signal control and coordination.

Day 7: Safety and Policy in Transportation Planning

- Traffic and transportation safety analysis and planning.
- Policy frameworks and regulations for traffic management.
- Case studies on effective transportation policy interventions.

Day 8: Data Analytics in Transportation

- Collecting and analyzing traffic and transportation data.
- Predictive analytics for traffic forecasting.
- Using data to inform decision-making in transportation planning.

Day 9: Community Engagement and Social Impact

- Engaging stakeholders in traffic and transportation planning.
- Assessing the social impact of transportation projects.
- Techniques for public participation and creating a business plan on transportation.

Day 10: Project Development and Evaluation

- Developing a comprehensive transportation plan.
- Evaluating the effectiveness of traffic and transportation projects.
- Presentation of group projects and feedback.

Conclusion

This course is designed to enhance participants' expertise in traffic and transportation planning by training them in comprehensive techniques for sustainable transportation and the use of advanced systems to optimize performance. Participants will gain a complete understanding of the role of a transportation manager, mastering

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both basic and advanced aspects of traffic planning and management. By the end of the course, participants will receive a recognized certification in transportation planning, opening doors to opportunities in traffic management and project specialization, and boosting their potential for success in modern and complex work environments.



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