Transportation and Traffic Planning

14 – 25 December 2026
Amsterdam (Netherlands)

UK Traininig
PARTNER



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Ref: 3254446_310653 **Date:** 14 – 25 December 2026 **Location:** Amsterdam (Netherlands) **Fees:** 10600 GBP

Introduction

Transportation and traffic planning play a critical role in shaping sustainable, efficient, and resilient urban environments. This Traffic Planning & Design Training Course provides participants with a comprehensive understanding of traffic and transportation systems, covering both fundamental principles and advanced techniques in transportation planning and technology.

Through this course, participants will explore the latest tools, concepts, and strategies for sustainable transportation planning, traffic management, and addressing challenges related to international traffic and transportation safety. By focusing on real-world applications and emerging technologies, this course empowers participants to create effective traffic management plans and optimize urban transportation systems for better efficiency and safety.

Course Objectives

- Understand Core Concepts: Learn the fundamentals of traffic planning, transportation planning, and their importance in modern urban development.
- Master Tools and Techniques: Gain expertise in advanced tools like GIS, traffic simulation software, and predictive analytics.
- Design Sustainable Solutions: Develop skills for sustainable transportation planning and integrating public and non-motorized transport.
- Incorporate Technology: Explore the role of smart transportation technologies such as IoT, big data, and intelligent transportation systems.
- Address Safety and Policy: Understand frameworks for international traffic and transportation safety and develop policies for effective management.
- Optimize Traffic Flow: Learn methods to improve traffic flow, reduce congestion, and implement advanced traffic management systems.
- Engage Communities: Understand techniques for stakeholder engagement, social impact assessment, and public participation in traffic planning and design.
- Evaluate Projects: Gain skills in evaluating the environmental, social, and economic impacts of transportation projects.



Course Outlines

Day 1: Introduction to Transportation and Traffic Planning

- Overview of traffic transport systems and their importance in urban environments.
- Historical evolution of traffic planning and its relevance in modern cities.
- Key concepts and terminology in traffic and transportation management.
- Identifying stakeholders in transportation planning processes.

Day 2: Urban Transportation Systems

- Types of urban transportation systems and their unique characteristics.
- Essential components of effective traffic management systems.
- Case studies of successful traffic planning and design in urban areas.

Day 3: Planning Tools and Techniques

- Introduction to Geographic Information Systems GIS for traffic planning.
- Understanding travel demand modeling and its application in transportation planning.
- Using traffic simulation software for traffic incident management training.

Day 4: Sustainable Transportation Planning

- Principles of sustainable transportation and strategies for reducing environmental impacts.
- Integration of public transport, biking, and walking into traffic management plans.
- Linking transport and sustainability for long-term urban resilience.

Day 5: Smart Transportation Technologies

- Emerging technologies like autonomous and electric vehicles in traffic transport.
- Introduction to Intelligent Transportation Systems ITS and their applications.
- The role of IoT and big data in transportation planning and technology.

Day 6: Traffic Flow and Congestion Management

- Theories of traffic flow and their application in congestion management.
- Techniques for implementing advanced traffic management systems.
- Optimizing traffic signal control and coordination to improve efficiency.



Day 7: Safety and Policy in Transportation Planning

- Analysis of international traffic and transportation safety challenges.
- Developing policy frameworks and regulations for effective traffic management.
- Case studies showcasing successful traffic planning and safety interventions.

Day 8: Data Analytics in Transportation

- Methods for collecting and analyzing traffic and transportation data.
- Using predictive analytics for traffic forecasting and decision-making.
- Applying data insights to optimize traffic transport systems.

Day 9: Community Engagement and Social Impact

- Engaging stakeholders in traffic planning to foster collaboration.
- Assessing the social impacts of transportation planning and design projects.
- Developing a business plan on transportation to address community needs.

Day 10: Project Development and Evaluation

- Steps to develop a comprehensive traffic management plan.
- Evaluating transportation projects for environmental, economic, and social impacts.
- Presenting group projects and receiving feedback for improvement.

Why Attend this Course: Wins & Losses!

- Comprehensive Training: Gain in-depth knowledge of traffic planning & design and its critical role in urban development.
- Master Emerging Technologies: Learn about smart transportation technologies, IoT, and big data to optimize urban mobility.
- Design Sustainable Solutions: Develop skills for sustainable transportation planning and reducing environmental impacts.
- Enhance Career Opportunities: Receive a recognized certification in transportation planning, boosting your qualifications for roles in traffic management and project development.
- Practical Application: Work on real-world scenarios, including creating traffic management plans and using advanced tools like GIS and traffic simulation software.
- Community and Policy Engagement: Learn to engage stakeholders effectively and address challenges in international traffic and transportation safety.

Conclusion

This Traffic Planning & Design Training Course offers participants the tools and knowledge needed to excel in traffic and transportation roles. From mastering fundamental concepts to leveraging cutting-edge technologies like IoT and big data, participants will be equipped to design and manage effective transportation systems.



Upon completion, attendees will receive a professional certification in transportation planning, opening doors to roles such as traffic manager, transportation project specialist, and positions in advanced traffic management systems. This course is a gateway to enhancing your career potential and contributing to the development of efficient, sustainable, and resilient urban transportation networks.

Enroll today to become a leader in modern traffic planning and design!

