Transport Planning Training Course

Professional Development Training Course Outline

Category	Construction Institute	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Transport Planning Training Course is designed to develop advanced expertise in smart mobility, sustainable transportation systems, urban mobility planning, intelligent transport systems (ITS), and data-driven traffic management. This professional program equips participants with practical knowledge of integrated transport planning, multimodal transportation strategies, public transport optimization, travel demand forecasting, and infrastructure development planning. With cities worldwide facing challenges such as congestion, carbon emissions, rapid urbanization, and evolving mobility needs, effective transport planners play a critical role in designing future-ready, resilient, and sustainable transportation networks.

This comprehensive course focuses on modern approaches to transport policy development, mobility analytics, GIS-based transport planning, traffic engineering, transit-oriented development (TOD), and smart city mobility solutions. Participants will gain practical skills through industry case studies, planning tools, real-world projects, and best practices from global transportation systems. The training supports professionals in creating efficient, inclusive, low-carbon, and technology-enabled transport solutions aligned with global sustainability goals and emerging mobility trends.

Programme Curriculum

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Course Duration

5 days

Course Objectives

By completing this Transport Planning Training Course, participants will be able to:

1. Understand the fundamentals of strategic transport planning and sustainable mobility frameworks.
2. Develop skills in urban mobility planning and integrated transportation systems.
3. Apply transport demand forecasting and mobility modeling techniques.
4. Analyze traffic patterns using advanced traffic management strategies.
5. Understand public transport planning and mass transit optimization.
6. Apply GIS and spatial analytics for transportation planning.
7. Design solutions for smart mobility and intelligent transport systems (ITS).
8. Evaluate transport infrastructure planning and investment strategies.
9. Implement green transportation and low-carbon mobility solutions.
10. Understand transport safety planning and Vision Zero approaches.
11. Develop effective transport policies and mobility governance frameworks.
12. Apply data analytics, AI, and digital technologies in transport planning.
13. Create innovative solutions for future mobility, connected vehicles, and sustainable cities.

Target Audience

1. Transport planners and mobility professionals
2. Civil engineers and traffic engineers
3. Urban planners and city development specialists
4. Government transportation officials and policymakers
5. Infrastructure consultants and project managers
6. Public transport operators and mobility service providers
7. Smart city professionals and GIS specialists
8. Researchers, academics, and sustainability professionals

Course Modules

Module 1: Fundamentals of Transport Planning

- Principles of modern **transportation planning systems**
- Evolution of urban mobility and transport networks
- Relationship between land use and transportation
- Transport planning frameworks and methodologies
- Global trends in sustainable mobility development
- **Case Study: Singapore Integrated Transport Planning Model**

Module 2: Urban Mobility Planning and Smart Cities

- Smart city mobility concepts and frameworks
- Urban congestion management strategies
- Sustainable urban transport solutions
- Mobility-as-a-Service (MaaS) models
- Future-ready city transportation planning
- **Case Study: Barcelona Smart Mobility Strategy**

Module 3: Transport Demand Forecasting and Modeling

- Travel demand analysis techniques
- Four-step transport planning model
- Traffic simulation and forecasting methods
- Big data applications in mobility analysis
- Predictive analytics for transportation planning
- **Case Study: London Transport Demand Management Program**

Module 4: Public Transport Planning and Optimization

- Public transit network design
- Bus rapid transit (BRT) planning
- Metro and rail transport integration
- Transit-oriented development (TOD)
- Passenger experience improvement strategies
- **Case Study: Curitiba Bus Rapid Transit System**

Module 5: Intelligent Transport Systems (ITS) and Digital Mobility

- ITS technologies and applications
- Artificial intelligence in transport management
- Connected and autonomous vehicle concepts
- Real-time traffic monitoring systems
- Digital transformation in transportation
- **Case Study: Dubai Intelligent Transport System Program**

Module 6: Sustainable Transportation and Green Mobility

- Low-carbon transportation strategies
- Electric vehicle (EV) infrastructure planning
- Active mobility and non-motorized transport
- Climate-resilient transportation systems
- Sustainable transport policies
- **Case Study: Oslo Electric Mobility Transition**

Module 7: Transport Infrastructure Planning and Safety

- Road network planning and optimization
- Transport infrastructure investment planning
- Road safety engineering principles
- Vision Zero strategies
- Risk assessment and mitigation planning

- **Case Study: Sweden Vision Zero Road Safety Program**

Module 8: Future Mobility Strategies and Transport Innovation

- Emerging mobility technologies
- Autonomous transportation systems
- Mobility innovation ecosystems
- Future transport policy development
- Resilient and inclusive mobility planning
- **Case Study: Helsinki Mobility-as-a-Service (MaaS) Initiative**

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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