TRANSPORTATION PLANNING AND MANAGEMENT

YOU WILL LEARN HOW TO:

- Anticipate future traffic problems of a transportation network.
- Understand the use and limitations of various modes of transportation and learn a technique to design an efficient transportation system by combination of these.
- Understand the concept of Level of Service of the transport system and techniques to maintain those within acceptable limits.
- Obtain guidance in the traffic control systems and their use during special events as well as during construction.
- Develop an intelligent transportation system as well as efficient parking system.
- Be aware of and be able to evaluate the effects of any new development on the adjacent traffic network.
- Understanding the concepts of traffic calming, forecasts, traffic management systems etc
- Acquire a basic knowledge of standards of transportation safety.
- Obtain sufficient knowledge to manage traffic in your small neighborhood/complex/construction site.

WHO SHOULD ATTEND:

- Engineers and Technicians in charge of a construction site
- Builders and Developers
- Architects
- Traffic controllers
- Traffic control authorities of big events
- Town Planners
- Civil Engineers
- Development Control Officers
- Construction Project engineers
Practical Sessions
This is a practical, hands on workshop enabling you to work through practical exercises which reinforce the concepts discussed.

To gain full value from this workshop, please bring your laptop/notebook computer.

On-Site Training
✔ SAVE over 50% by having an IDC workshop presented at your premises.
✔ Customise the training to YOUR workplace.
✔ Have the training delivered when and where you need it.

Contact us for a FREE proposal.

The Program

INTRODUCTION
• Understanding the need of transportation, and its demand in urban and rural areas.
• Various modes of transportation, their uses and limitations
• Overview of a Transportation system
• Introduction transport planning and various stages of transport planning.

TRANSPORTATION PLANNING
• We begin transportation surveys and analysis of their results
• Study the Transportation Impact Analysis
• Study the traffic forecasts, methods of forecasting
• Traffic models, their use and limitations, model splits
• Trip generation and distributions
• Traffic assignments and evaluations

Practical Session

TRAFFIC CONTROLS
• Traffic Control using physical barriers, highway geometric and other controls
• Street furniture
• Road markings
• Intersection Controls – roundabouts, STOP-controls, signals
• Grade separated intersections-interchanges
• Traffic regulations

Practical Session

TRAFFIC SAFETY
• Accidents and their analysis
• Identification of cause
• Cost of an accident
• Prevention measures
• Street lighting

TRAFFIC MANAGEMENT
• Scope of management
• Restriction of turning movements
• Access controls
• One way streets
• Tidal Flow operations
• Exclusive Traffic Lanes
• High occupancy lanes
• Traffic clamping
• Other management measures

Practical Session

PARKING
• Parking requirements
• On street parking
• Off street parking
• Design standards for parking facilities
• Loading and unloading facilities
• Sheared Parking

Practical Session

TRANSPORTATION MANAGEMENT UNDER SPECIAL CIRCUMSTANCES
• Importance of traffic management under special situations
• Transportation management under natural disasters
• Transportation management during construction
• Transportation management for special events
• Management of constriction site
• Management of special event area

Practical Session

TRANSPORTATION ECONOMICS
• Economic evaluation any transportation or improvement plan
• Vehicle operating cost
• Value of travel time saving
• Accident cost
• Road Pricing

OTHER MODES OF TRANSPORTATION
• Railway Transport
• Transportation management at Railway stations
• Maritime Transport
• Transportation management at Docks and harbors
• Air Transport
• Transportation management at airports

Practical Session

MASS TRANSPORTATION SYSTEMS
• Need and importance of Mass transportation System
• Responsibilities of a Mass transportation System
• Common Mass transportation Systems
• Paratransit
• Comparison of different transit systems

INTELLIGENT TRANSPORTATION SYSTEM
• Use of computer in Transport management
• Use of satellite in Transport management
• Use of other modern technologies in Transport management

Practical Session

SUMMARY, OPEN FORUM AND CLOSING

Pre-requisites
Basic Knowledge of Transportation and traffic Engineering Principles and Concepts will be an advantage.