

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



Technology Training that Works

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 geometrics 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 claming
- Other management measures

Practical Session

Pre-requisites

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

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