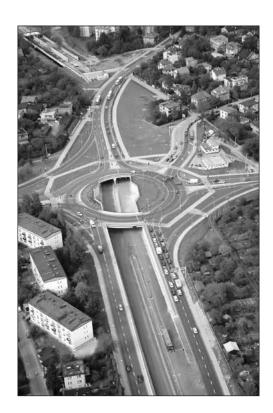
# TRANSPORTATION PLANNING AND MANAGEMENT



# 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:



- Technology Training that Works
- 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 geometrics and other controls
- Street furniture
- Road markings
- Intersection Controls roundabouts, STOP-controls, signals
- Grade separated intersectionsinterchanges
- 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