

Traffic Engineering





Traffic Engineering



Course Objective

- ➤ This course presents a comprehensive overview of traffic and transportation engineering.
- ➤ The emphasis of this course is to provide solutions to transportation problems and to facilitate the management of transportation systems.
- Among the areas covered are characteristics of the transportation system, traffic analysis and operations, transportation studies, intersection capacity, traffic and highway planning, geometric design, transportation systems management.
- ➤ Traffic safety and Intelligent Transportation Systems (ITS).

Target Audience

- > Traffic Engineers
- ➤ Highway Safety Mangers
- > Accident Analysts
- > Consultants and other specialists
- > Clients Representative
- > Fees included
- > Training Fees
- ➤ Hand out



- > Transportation
- ➤ Accommodation
- > Site Visit
- > Certificate tour



Course Outline

Day 1

System Components

- ➤ Road Users Characteristics
- ➤ Vehicle Characteristics
- ➤ Highway Characteristics

Traffic Demand Studies

- Speed Studies
- ➤ Volume Studies
- ➤ Parking Studies

Day 2

Traffic Characteristics

- > Traffic density, traffic flow and speed
- > Traffic Flow Theory and Models
- ➤ Level of Service Criteria

Traffic Behavior And Supply Characteristics

- Capacity of Uninterrupted flow
- > Freeways Traffic Flow
- > Types of Continuous Flow Facilities
- > Service flow



Day 3

Interrupted Flow Characteristics

- > Capacity of Interrupted Flow
- ➤ Intersection Control and Analysis
- ➤ Design of Traffic Signals

Traffic Operation and Control

- ➤ Traffic Control Devices
- > Traffic Signs and Marking
- ➤ Traffic Management and Congestion.

Day 4

Traffic Safety at Intersections

- > Traffic and Median Barriers
- ➤ Intersection Design Elements
- ➤ Sight distance at intersections

Accident Studies and Analysis

- > Factors causing crashes
- > Types of accidents
- Collision diagram of accidents
- > Condition diagram of accident sites

Day 5

Accident Data Collection and Statistics

- > Accident rate calculations
- ➤ Accident Reporting
- > Filing system of accident data record
- > Accident Statistics



Work Zone Safety

- > principles of work zone control
- ➤ Work zone areas and their components
- > Taper lengths and types
- ➤ Advanced traffic control devices
- > System Components
- ➤ Road Users Characteristics
- ➤ Vehicle Characteristics

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- we give the participant training bag includes all the necessary tools for the course.
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The Cost Of The Training Program Includes The Following:

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.

Price (USD)

Communicate with the training department to know the participation fees

> There are offers and discounts for groups

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