Access Management and Site Design
COURSE OUTLINE

DAY ONE:

7:30 - 8:00 Registration

8:00 -8:15 Opening Remarks (Demosthenes)
Introduction of Program, Instructors and Students
Format and Duration /Course materials

8:15 - 9:15 Why Is Managing Access Important Today? (Demosthenes)
Learning Objective
Problem identification
Defining access control and management
National and California Safety Information
The Safety goal of SAFETEA
Access management related crash data -
Defining highway access conflicts
The transportation service - development - access demand cycle
Roots of the problem, 1900 to 2002, US highway design and policy
The principles of roadway hierarchy
Summary

9:15 - 9:30 Break

9:30 – 11:00 On-Site Design and Circulation (Clausen/Demosthenes)
Learning objective
Overview - Design (vehicles, peds, deliveries, everything)
Site plan review (look for issues)
Vehicle circulation (as in customers)
Circulation pit falls
Going from circulation to parking
Parking stalls including ADA
Drive-through facility flow and stacking
Parking Stall and Aisle and Layout
Parking Structure Considerations
Drive Thru and Queuing Facilities
Loading Areas
Truck Access
Pedestrian and Bicycle Access
Emergency Access
Summary

11:00 – 12:00 CLASS EXERCISE/ CASE STUDY (Site Design)

12:00 - 1 pm LUNCH

1:00 – 3:00 Mitigating Access Impacts by Design (Demosthenes/Clausen)

Demosthenes
Learning Objective
Design from outside in (until you have cleared the access operation area)
Restricting turning movements (medians, reducing severity types)
Full movement or some restrictions
Managing turning and through traffic (auxiliary lanes)
Criteria for auxiliary lanes
Left - turn lane (and length).
Right turn lane
Improving driveway operations (driveway design elements)
Radius
Width
Pedestrian and bicycle safety and mobility
Summary

Clausen, On Site Mitigation
Throat length and alignment
Driveway profile
Driveway grade
Sight distance - & preserving the sight distance
Channelization
Joint driveways
Summary

3:00 – 3:15 Break

3:15 – 4:00 CLASS EXERCISE/CASE STUDY (Driveway design)

4:00 – 4:30 Access Design Principles - Mobility and Safety (Demosthenes) - Part 1
Learning Objective
Why vehicles collide
Driver work load as an operation and safety factor
Work load and access management

DAY TWO

8:00 – 9:30 Access Design Principles - Mobility and Safety (Demosthenes) – Part 2
Reasonable access
Driveway spacing and location criteria
Corner Clearance for driveways
Reducing signals

9:30 -- 10:00 Break, then continue part 2
Signal Spacing - intersection spacing
Land use impacts on access management
Interchange cross roads
Parallel collectors - part of the hierarchy
Summary

10:00 - 10:45 CLASS EXERCISE/CASE STUDY
Medians and openings, Corridor design, Access Planning

10:45 – 11:45 Residential Access Design Elements (Clausen)
Learning Objective
Internal street system configuration and intersection control
Emergency access
Connecting neighborhoods/pedestrian and bicycle circulation
Traffic calming features for new subdivisions
Narrow residential streets
Subdivision critique
Summary

11:45 – 12:45 LUNCH

12:45 -- 2:45 Traffic Impact Studies for Development Projects (Clausen)
Learning Objective
Purpose and Uses
Relationship to EIR Process
Thresholds for Requiring TIS
Scope of Work/Study Area Definition/Existing Infrastructure
Data Collection/Background Traffic
Existing and Proposed Land Uses
Thresholds of Significance
Trip Generation/Trip Distribution
Mitigation Measures/Monitoring
Special Studies (Signal Warrants, Safety)
Transportation Demand Strategies
Parking Demand
Summary

2:45 - 3:00 Break

3:00 – 3:45 CLASS EXERCISE/CASE STUDY (Traffic Impact Study)

4:00 - 4:30 Cumulative Impact Mitigation (Clausen)
Learning Objective
Traffic Mitigation Fee programs
Reciprocal Fee Agreements
Area Wide Fee Programs
Summary

4:30 Course Evaluations/Certificates (Clausen)