

Urban Street Design

About the Course

2.1 CEUs/21 PHDs (3 days)

Pedestrians, bicycles, and business and residential driveways are some of the factors that make urban streets different from rural highways. Transit, drainage and intersections may also have unique design criteria when they are part of an urban street system. Traffic flow conditions, peak and off-peak speeds and volume variations are also significant and can affect street design. Schematic drawings and photographs are used to illustrate various urban street design practices.

In workshop sessions, course participants will work on problems and exercises related to a variety of design issues including sight distance assumptions, determination of the functional intersection area, and length of left-turn and right-turn bays. Corner clearances, minimum centerline radii, the rationale for the cross-section of arterials, collectors, and local residential streets are addressed.

{Note: The course was extensively revised in 2005 and 2006. Participants receive a notebook (over 750 pages) that includes all visual aid and extensive text.}

Course Topics

- ❖ Street patterns and urban development
- ❖ Signal spacing
- ❖ Access connection spacing
- ❖ Sight distances
- ❖ Pedestrian and bicycle considerations
- ❖ Principles of intersection design
- ❖ Warrants for the design of turn bays
- ❖ Median benefits and design
- ❖ Drainage issues
- ❖ Criteria for the design of arterial, collector and local streets
- ❖ The geometric design of driveways (radius, width, throat length and profiles)
- ❖ Discussion of evolving practices

Who Should Attend

This course is appropriate for municipal and county staff involved in the development of the thoroughfare element of comprehensive plans, the planning and design of major roadways, or the administration of subdivision regulations. State highway engineers and planners involved in the design of roadway improvements in urban or suburban areas and consulting engineers and planners involved in the design of urban streets or subdivisions will also benefit from this course.

For additional information or questions, please contact:

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