MULTIMODAL TRANSPORTATION IMPACT ANALYSIS: CALIFORNIA BEST PRACTICES (TE-58)

COURSE OUTLINE

SESSION 1: Overview, Concepts and Legislation/Policies
2-hours (Colman)

- Course overview
- Transportation Impact Studies: purpose and uses; thresholds, scope of work, data requirements, study area; introduction to Multimodal Transportation Impact Concepts
- Developing alternatives for CEQA & other analyses
- Estimating trip generation: person and vehicle
- Introduction to VMT: paradigm shift and emerging role in SB 743 & methods for estimating vehicle miles of travel
- Introduction to Level of Service (LOS): traditional, multimodal, and their relation to SB-743
- Understanding the uses of LOS under current and future legislative environments
- Caltrans Guidance on Implementing SB 743
- Determining CEQA Significance of Transportation Impacts for Projects in Transit Priority Areas (TPAs)
- How do we address induced demand from capacity-increasing projects?
- Review of Key Reference Materials: ITE, NACTO, Caltrans, and more: useful websites and print material
- Interactive Engagement: Estimating trip generation from a mixed-use (site) land development project

SESSION 2: Multimodal Analysis Concepts and Techniques
2-hours (Cisco)

- Analysis methods for addressing ped, bike, auto and transit quality of service
- Pedestrian mode concepts and performance measures
- Bicycle mode concepts and performance measures
- Automobile mode concepts and performance measures
- Transit mode concepts and performance measures
- Interactive Engagement: Numeric problems interpreting multimodal analysis
SESSION 3: Planning Topics and Procedures

2-hours (Colman)

- California statutory requirements and the General Plan
- Applications to new development and design standards
- Relationship to sustainable transportation indicators
- Applications to Travel Demand Management and Transportation System Management
  - (TSM/TDM) Programs and Mitigations
- Using parking and curb management as a transportation planning tool
- Applications in project mitigation, target LOS, & thresholds of significance
- How do I assess cumulative impacts?
- Sources and references for further study
- Multimodal level of service and its malcontents
- Calculating ‘fair share’ transportation impact fees
- 10 things that a good transportation impact study should contain
- Current and emerging best practices
- Interactive Engagement: Applying mitigation measures in a site impact study

SESSION 4: Multimodal Analysis Impacts, Tools and Presentation

2-hours (Cisco)

- Cross modal impacts
- Exploration of available software tools for various analysis tasks
- Capabilities, strengths and weaknesses
- Using the right tool for the job
- Presentation of results: dashboards, graphics, and more
- Interactive Engagement: Software analysis demonstrations and resources
- Course evaluation