

Multimodal Transportation Impact Analysis: California Best Practices (TE-58)

Course Outline

SESSION 1 - Overview, Concepts and Legislation/Policies

2-hours (Colman)

- Course overview and schedule
- Transportation Impact Studies: purpose and uses; thresholds, scope of work, data requirements, study area
- Overview, thresholds for studies, data needs
- Counting in a post-Covid world
- Getting started
- Trip generation & trip types: person and vehicle
- Internal capture of trips within a project; pass-by trips
- Trip distribution and mode choice
- Performance measures: Vehicle Miles Traveled (VMT), Level of Service (LOS)
- How do we address induced demand under SB 743?
- 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 (*time permitting*)

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 - Case Study, Planning Topics and Procedures

2-hours (Colman)

- CASE STUDY: Serra-West Medical Center & Mayacama Arts Center
- Collecting non-motorized (active transportation) counts
- California statutory requirements and the General Plan
- Developing Mitigations: TDM, Parking & Others
- Using parking and curb management as a transportation planning tool
- Signal warrants and access considerations
- Safety and emergency vehicle access
- Goods movement/ truck impacts
- Transportation impact fees
- What should a good transportation impact study contain?
- References & Resources
- *Interactive Engagement:* Applying mitigation measures in a site impact study (time permitting)

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