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## Roundabouts: Balancing Safety & Mobility for All Users (TE-38)

### Course Outline

#### DAY ONE (3.5 hours): ROUNDABOUT PLANNING ASPECTS

- Traditional vs. Modern Roundabouts
- Benefits of Roundabouts
- Types and Definitions of Roundabouts
- FHWA and Caltrans Policies & Guidelines
- Case Study: Roundabout Planning in Community Context
- Capacity Analysis (NCHRP 1043 & CA MUTCD)

Q&A Session and Quizzes

#### DAY TWO (3.5 hours): ROUNDABOUT DESIGN ASPECTS

- Geometric Parameters and Layout Overview
- Design Attributes with Multi-modal Considerations
  - Design Vehicles and Truck Aprons
  - Entry and Exit Deflections
  - Center Island Design and Sight Distances
  - Bicycle Integration
  - Pedestrian Safety Considerations
  - Drainage and Grading
- Design Process
- Implementation Process
  - Quick-build
- Case Study

Q&A Session and Quizzes