TE-29 California Traffic Engineering License Exam Review
Fall 2018 (Online) Course Agenda
(Revised: 7-16-2018)

California Traffic Engineer Exam (http://www.bpelsg.ca.gov/applicants/plan_traffic.pdf)
October 25, 2018 (Thursday)
http://www.bpelsg.ca.gov/applicants/exam_schedule.shtml#fall2017pepls2)


**Session 1: Wed, September 5th, 5-6:30PM**
Instructor: Tech Transfer Staff & All Instructors
5:00PM: Course Introduction & Overview
- Course Materials
- Canvas LMS Tutorial
- Assistance from Tech Transfer Staff
5:15PM: California Traffic PE Exam Resources
- Navigating http://bpelsg.ca.gov/
- Test Preparation Strategies
5:30PM: Test-taking Strategies
- Stress Management
- Time Management
- Resources: What to Bring
5:50PM: Introduction of Instructors
6:00PM: Q&A

**Session 2: Mon, September 10th, 5-7:30PM**
Instructor: Obaid Khan
- Traffic Modeling/Estimating Traffic Volumes
- Traffic Impact Analysis:
  - Trip Generation
  - Trip Distribution
  - Trip Assignments
  - Pass-By Trips
  - Diverted Trips
Session 3: Wed, September 12th, 5-7:30PM  
Instructor: Joy Bhattacharya  
- Level of Service (LOS)/Capacity Analyses:  
  - Vehicle LOS  
  - Pedestrian LOS  
  - Bicycle LOS  
  - Transit LOS  
- VMT vs LOS

Session 4: Mon, September 17th, 5-7:30PM  
Instructor: Obaid Khan  
- Parking Analysis:  
  - Parking Generation  
  - Parking Demand  
  - Parking Studies  
- Parking Facilities and Design:  
  - Off-Street  
  - On-Street  
- Parking Regulation & Policies  
- Shared Parking

Session 5: Wed, September 19th, 5-7:30PM  
Instructor: Obaid Khan  
- Geometric Design of Roadway & Transportation Facilities  
  - Vertical and Horizontal Alignments  
  - Driveways  
    - Design of Spacing  
  - Intersections  
  - Channelization Designs for Turning Movements  
  - Roundabouts  
  - Roadway Improvements  
  - Interchanges
Session 6: Mon, September 24th, 5-7:30PM
Instructor: Tom Mericle
- Engineering and Traffic Surveys
  - Speed-Zone Surveys
  - Traffic Engineering Assessments
  - Field Investigations of Roadway Conditions
- Traffic Collisions
  - Collision Diagrams
  - Collision Rates
  - Techniques for Analyzing Collisions
- Benefit/Cost Analysis
- Mid-Course Evaluation

Session 7: Wed, September 26th, 5-7:30PM
Instructor: Tom Mericle
- Safety and Traffic Control Devices
- Roadway Signing
  - Regulatory Sign Warrants and Placement
  - Warning Signs
  - Parking Signs
- Pavement Markings/Striping
- Temporary Traffic Controls

Session 8: Mon, October 1st, 5-7:30PM
Instructor: Obaid Khan
- Bicycle Facilities Design
  - Signing and Marking
  - Bicycle Facilities Improvements
- Pedestrian Facilities Design
  - Signing and Marking
  - ADA Compliance
- School Zones
Session 9: Wed, October 3rd, 5-7:30PM  
Instructor: Joy Bhattacharya  
- Traffic Signal Design:  
  - Warrants  
  - Features, Standards & Specifications  
  - Layout  
  - Modifying Signal Hardware  
- Street/Roadway Lighting

Session 10: Mon, October 8th, 5-7:30PM  
Instructor: Obaid Khan  
- Traffic Calming  
- Access Management  
- Surface Transit Accommodations  
- Cost-Benefit Evaluation

Session 11: Wed, October 10th, 5-7:30PM  
Instructor: Joy Bhattacharya  
- Traffic Signal Operations:  
  - Timing/Phasing  
  - Coordination  
- Intelligent Transportation Systems

Session 12: Mon, October 15th, 5-6:30PM  
Instructor: Tech Transfer Staff & All Instructors  
- Q&A (All Instructors)  
  - Joy Bhattacharya  
  - Obaid Khan  
  - Tom Mericle  
- Final Course Evaluation (post-training)