TE-29 California Traffic Engineering License Exam Review
Fall 2019 (Online) Course Agenda
(Revised: 4-5-2019)

- California Traffic Engineer Exam ([http://www.bpelsg.ca.gov/applicants/plan_traffic.pdf](http://www.bpelsg.ca.gov/applicants/plan_traffic.pdf))
- October 24, 2019 (Thursday) [http://www.bpelsg.ca.gov/applicants/exam_schedule.shtml#fall2017pepls2](http://www.bpelsg.ca.gov/applicants/exam_schedule.shtml#fall2017pepls2)

**Session 1: Wed, 8-21-2019, 5-6:30PM**

Instructors: 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, 8-26-2019, 5-7:30PM**

Instructor: Joy Bhattacharya
- Level of Service (LOS)/Capacity Analyses:
  - Vehicle LOS
  - Pedestrian LOS
  - Bicycle LOS
  - Transit LOS
- VMT vs LOS
Session 3: Wed, 8-28-2019, 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 4: Wed, 9-04-2019, 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: Mon, 9-09-2019, 5-7:30PM
Instructor: Tom Mericle
- Geometric Design of Roadway & Transportation Facilities
  - Vertical and Horizontal Alignments
  - Driveways
  - Intersections
  - Channelization Designs for Turning Movements
  - Roundabouts
  - Roadway Improvements
  - Interchanges
Session 6: Wed, 9-11-2019, 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: Mon, 9-16-2019, 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: Wed, 9-18-2019, 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: Mon, 9-23-2019, 5-7:30PM**

Instructor: Joy Bhattacharya

- Traffic Signal Design:
  - Warrants
  - Features, Standards & Specifications
  - Layout
  - Modifying Signal Hardware
- Street/Roadway Lighting

**Session 10: Wed, 9-25-2019, 5-7:30PM**

Instructor: Obaid Khan

- Traffic Calming
- Access Management
- Surface Transit Accommodations
- Cost-Benefit Evaluation

**Session 11: Mon, 9-30-2019, 5-7:30PM**

Instructor: Joy Bhattacharya

- Traffic Signal Operations:
  - Timing/Phasing
  - Coordination
- Intelligent Transportation Systems

**Session 12: Wed, 10-02-2019, 5-6:30PM**

Instructors: Tech Transfer Staff & All Instructors

- Q&A (All Instructors)
  - Joy Bhattacharya
  - Obaid Khan
  - Tom Mericle
- Final Course Evaluation (post-training)