

## California Traffic Engineering License Exam Review (TE-29) Fall 2024 Course Outline

California Traffic Engineer Exam: [http://www.bpelsg.ca.gov/applicants/plan\\_traffic.pdf](http://www.bpelsg.ca.gov/applicants/plan_traffic.pdf)

Exam Period: October 13-27, 2025

[https://www.bpelsg.ca.gov/applicants/exam\\_schedule\\_final\\_filing\\_dates.pdf](https://www.bpelsg.ca.gov/applicants/exam_schedule_final_filing_dates.pdf)

Traffic Examination Reference Materials: <https://www.bpelsg.ca.gov/applicants/trafrefs.shtml>

### **Session 1 – Tuesday, September 02, 2025 5:00PM – 6:30PM**

**Instructors: Tech Transfer Staff & All Instructors**

5:00PM: Course Introduction & Overview 5:05PM:

Introduction of Instructors 5:20PM: Getting Familiar  
with the Course

- Course Materials
- Canvas LMS Tutorial/Course Recordings
- Assistance from Tech Transfer Staff

5:30PM: California Traffic PE Exam Resources

- Navigating <http://bpelsg.ca.gov/>
- Test Preparation Strategies

5:40PM: Test-taking Strategies

- Stress Management
- Time Management
- Resources: What to Bring

5:50PM: Getting the Most from the Course

6:00PM: Q&A

### **Session 2 – Wednesday, September 03, 2025 5:00PM – 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 – Thursday, September 04, 2025 5:00PM – 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 4 – Tuesday, September 09, 2025 5:00PM – 7:30PM**

**Instructor: Joy Bhattacharya**

- Level of Service (LOS)/Capacity Analyses:
  - Vehicle LOS
  - Pedestrian LOS
  - Bicycle LOS
  - Transit LOS
- VMT vs LOS

**Session 5 – Wednesday, September 10, 2025 5:00PM – 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 – Thursday, September 11, 2025 5:00PM – 7:30PM**

**Instructor: Tom Mericle**

- Engineering and Traffic Surveys
  - Speed-Zone Surveys
  - Traffic Engineering Speed Setting
- Traffic Crashes
  - Techniques for Analyzing Collisions
  - Collision Diagrams
  - Collision Rates
- Traffic Safety Systems
  - Clear Recovery Zone
  - Guardrail
  - Barriers

Mid-Course Evaluation

**Session 7 – Tuesday, September 16, 2025 5:00 – 7:30 PM**

**Instructor: Joy Bhattacharya**

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

**Session 8 – Wednesday, September 17, 2025 5:00PM – 7:30PM**

**Instructor: Tom Mericle**

- Traffic Control Devices
- Roadway Signing
  - Regulatory Signs, Warrants, and Placement
  - Warning Signs and placement
- Pavement Markings/Striping
- Temporary Traffic Controls

**Session 9 – Thursday, September 18, 2025 5:00PM – 7:30PM**

**Instructor: Joy Bhattacharya**

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

**Session 10 – Tuesday, September 23, 2025 5:00PM – 7:30PM**

**Instructor: Obaid Khan**

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

**Session 11 – Wednesday, September 24, 2025 5:00PM – 7:30PM**

**Instructor: Obaid Khan**

- Bicycle Facilities Design
  - Signing and Marking
  - Bicycle Facilities Improvements
- Pedestrian Facilities Design
  - Signing and Marking
  - ADA
- School Zones

**Session 12 – Thursday, September 25, 2025 5:00PM – 6:00PM**

**Instructors: Tech Transfer Staff & All Instructors**

- Q&A (All Instructors)
  - Joy Bhattacharya
  - Obaid Khan
  - Tom Mericle

Final Course Evaluation