



TE-29
CALIFORNIA TRAFFIC ENGINEERING LICENSE EXAM REVIEW

COURSE OUTLINE

SUBJECTS	Task Statements*	Associative Knowledge*
1. CIRCULATION		
1.1 Traffic Flow Fundamentals		
• Roadway - Classifications, Speeds		K42
• Roadway - Features, Capacity, Level of Access, Land Use		K11, K12, K13
• Traffic Volume Analysis		K9
• Intersection - Capacity, Geometrics		K7
1.2 Transportation Planning		
• Land Use	T4	K1, K7
• Travel Demand Model Development	T6	K5, K42
• Traffic Forecasting	T6	K18
• Transit, Trucks, Bicycle, Pedestrian Facilities	T11	
• Capital Improvements, Mitigation	T15	K15, K16
1.3 Traffic Impact Analysis		
• Land Use	T4	K5, K6, K22
• Trip Generation, Modal Split, Distribution, Assignment	T14	K5, K6, K22, K44
• Level of Service, Delays	T4	K1, K2
• Queuing, Access Point, Warrants for Left Turn Lane		K12
• Driveway Design & Placement		K13
• Bicycle and Pedestrian Facilities	T26	K25
• Warrants for 2-Way Stop, All-Way Stop, Signal		K51
• Intersection Mitigation, Signal Phasing Optimization	T47	
2. LEVEL OF SERVICE & CAPACITY		
2.1 Data Evaluation		
• Traffic Volumes, Vehicle Characteristics	T2	K14
2.2 Measures of Effectiveness (MOE)		
• Design, Operations, Safety	T8, T11	
• Transportation System Management (TSM)	T1	K9
• Corridor Analysis of Alternative Modes	T12	

* Source: Traffic Engineer Examination Content Outline (version 022410)
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COURSE OUTLINE (continued)

SUBJECTS	Task Statements*	Associative Knowledge*
3. EVALUATION OF TRAFFIC-RELATED IMPACTS		
3.1 Mitigation		
• Traffic Mitigation Measures		K12
• Effectiveness of Mitigation Measures	T14	
• Transportation Demand Management (TDM), Trip Reduction		K3
4. TRANSPORTATION FACILITIES DESIGN		
4.1 Basic Design Policies		K29, K30
4.2 Geometric Design Standards		K29, K30
4.3 Intersection at Grade		K27
4.4 Intersection Design Standards		K31, K50
4.5 Interchanges	T28	
4.6 Highway Lighting	T30	K34
4.7 ADA Compliance		K33
5. TRAFFIC SIGNAL DESIGN		
5.1 Signal Warrants		K51
5.2 Signal Features	T54	K55
5.3 Signal Standards	T54	K55
5.4 Signal Layout	T54	K55
5.5 Signal Operation and Detection	T54	K52
5.6 Pedestrian Signals	T54	K55
5.7 Signing and Striping		K52

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COURSE OUTLINE (continued)

SUBJECTS	Task Statements*	Associative Knowledge*
6. TRAFFIC CONTROLS		
6.1 Protocol, Standards, Guidelines, Regulations		K54
6.2 Speed Zone, Control, Engineering Surveys		K42
6.3 Signal Warrants		K51
6.4 Signal Operations, Timing, and Coordination		
• Cycle Length, Split, Offsets, Phasing, Accident Pattern		K58
• Vehicle Detection		K59
• Isolated Intersection	T41	
• Coordinated System	T41	
• Emergency Vehicle - Priority, Implementation, Potential Hazards		K60
• Railroad Crossing	T50	
• Operational and Safety Improvements		K45
• Effectiveness of Improvements		K47
6.5 Construction Zones		K57
6.6 Traffic Engineering Studies		K44
6.7 TDM / ITS	T21	K37
7. BICYCLES, PEDESTRIANS AND PARKING		
7.1 Bicycle Facilities Planning	T11	
7.2 Bicycle Facilities Design	T11	K39
7.3 Bicycle Facilities Signing and Marking	T11	K39
7.4 Pedestrians	T32	
7.5 School Zone	T32	
7.6 Parking Study and Design	T5	K22

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COURSE OUTLINE (continued)

SUBJECTS	Task Statements*	Associative Knowledge*
8. TRAFFIC FLOW		
8.1 Traffic Calming		
• Traffic Problems	T19	
• Strategies and Implementation	T19	
• Effects on Traffic Volumes and Speed		K41
• Effects on Adjoining Streets		K41
• Effects on Environment		K41
8.2 Hazard and Safety Deficiencies		
• Studies and Site Investigation	T35	K49
• Data Collection and Analysis		K49
• Accident Patterns		K49
8.3 Mitigation		
• Corrective Measures	T36	K19
• Alternative Strategies	T18	
• Effectiveness of Safety Improvements		K49

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