

HalfMoon Education Live Continuing Education Webinars

California Roadway Geometric Design

Online - Wednesday, July 12, and Thursday, July 13, 2023 | 8:30 am - 3:45 pm PDT

Credits:

Engineers: 12.0 PDHs Planners: CM I 12
Architects: 12-Hour Learning Opportunity AIA: 12.0 LU|HSW
Landscape Architects: 12.0 HSW CE Hours LA CES: 12.0 HSW Hours

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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AIA
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Provider



Agenda

This course is also available on-demand. See listing online for details.

Agenda Day One: Wednesday, July 12, 2023

8:30 am - 3:45 pm PDT (including 60-mins. of breaks)

AASHTO Policy on Geometric Design of Highways and Streets 2018

Introduction to geometric design: Safe Systems Approach

Additional resources outside of AASHTO: CAMUTCD, HCM, HDM, etc.

Roadway Characteristics

Urban vs. rural contexts	Functional roadway classifications
Contextual safety	Design speeds
Safe Systems approach	

Roadway Capacity

Speed-volume-density relationships	Various modes of travel
Purposes for capacity analysis	
Conditions influencing capacity	
Uninterrupted and interrupted flow	

Level of Service (LOS)

Quality of service concepts	LOS by mode and system element
Uninterrupted flow LOS methodology	
Interrupted flow LOS methodology	
Senate Bill 743 and the shift from LOS to vehicle miles travelled (VMT)	
• CEQA section 15064.3	
• Caltrans SB 743 implementation resources	

Roadway Cross Section (Part 1)

Median design	Turn pockets
Median taper design	

Roadway Cross Section (Part 2)

Lane widths	Bikeways
Roadway shoulders, clear zones, and lateral offsets	
Bus stops and bus turnout design	

Curb Returns

General considerations: users and design vehicles	
Curb return radii	"Daylighting" Curb ramp design

ADA Design Elements and Considerations

History and general considerations
Intersections, driveways, bus stops, and parking

Agenda Day Two: Thursday, July 13, 2023

8:30 am - 3:45 pm PDT (including 60-mins. of breaks)

Sight Distance

General considerations: height of driver's eye, height of object, etc.	
Stopping sight distance	Decision sight distance
Passing sight distance	Intersection sight distance

Driveway Design

Access management	Design controls
Location and spacing	Geometric design elements

Horizontal Alignment and Horizontal Curves

Turning roadways	Sight distance on horizontal curves
Offtracking	

Transition Design

Superelevation transition	Alignment transition
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Superelevation

Side friction factor	Minimum curve radii
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Vertical Alignment and Vertical Curves

Longitudinal roadway grades	Climbing lanes and escape ramps
Vertical curves	

Combinations of Horizontal and Vertical Alignment

Design controls	Alignment coordination
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Tuition

\$600 for individual registration
\$500 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

Faculty

Seth Jenison, PE, TE, PTOE is a Traffic Engineer for Interwest, a SAFEbuilt company. He graduated from California State University, Long Beach with a BS degree in Civil Engineering. Seth began his career as a Civil Engineer specializing in transportation related work. He is a well-rounded engineer with experience in both the private and public sectors. On the private side, Seth has designed roundabouts, traffic signals, street improvements, signing and striping plans, and traffic control plans, as well as grading and utility plans. He has also prepared many transportation grant applications, securing more than \$8.5 million in federal and state funding for various public agencies. In the public sector, Seth has experience as a traffic engineer and a project manager. He has reviewed all types of traffic engineering plans and studies and managed many transportation public works projects including two high-profile freeway interchange improvement projects. In his current role at Interwest, Seth is working as a consulting traffic engineer for public agencies all over California.

Credit Information

This webinar is open to the public and is designed to qualify for 12.0 PDHs for professional engineers, 12.0 HSW continuing education hours for licensed landscape architects, and 12-hour learning opportunity for licensed architects in California.

The American Institute of Architects Continuing Education System has approved this course for 12.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 12.0 HSW PDHs. Only full participation is reportable to the LA CES.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM I 12 for Certified Planners.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
12.0 HSW LUs (AIA) | 12.0 HSW PDHs (LA CES)

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