

# Credit and Faculty Informaton

## Continuing Education Credit Information

This live interactive webinar offers 6.5 PDHs/continuing education hours to professional engineers licensed in Texas. Educators and courses are not subject to preapproval in Texas.

Engineers seeking continuing education credit in other states will be able to claim credit earned at this webinar. This course includes information specific to Texas, so out-of-state engineers should review their CE rules to determine course eligibility.

This course is approved for CM | 6.5 by the American Planner Association–AICP for Certified Planners (Course No. 9208501).

Course completion certificates will be awarded to participants who complete the webinar in its entirety, respond to all the prompts during the instruction, and earn a score of 80% on the quiz that follows the instruction (multiple attempts allowed).

## Presented by

**George Lueck, P.E.**, has 17 years of experience with the Texas Department of Transportation (TxDOT). He started his career performing design and surveying for a variety of roadway projects ranging from farm-to-market roads, urban roadways and high design speed facilities in the Waco district. He later transferred to the construction division, where he provided oversight to statewide districts in the areas of construction project management, construction engineering, inspection and contract claims. After serving in this capacity for over 9 years, he transferred to the transportation planning division. As Assistant Director of Traffic Analysis, he oversaw transportation data collection and reporting, corridor-level plans, and travel demand modeling. He then served the City of Killeen for 11 years as Assistant City Engineer and Director of Transportation. He had oversight of all operation of the city's transportation system. He was also charged with ensuring that the city's transportation system was planned, constructed and maintained in a cost-effective manner to effectively address the region's growing safety, mobility and reliability needs.

## Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Roadway Design in Texas

Online - Thurs., December 17 and Fri., December 18, 2020



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

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# Learning Objectives

## You'll be able to:

**Develop** roadway designs that focus on the safety and mobility of the traveling public.

**Review** roadway design guidelines and analyze traffic characteristics.

**Obtain** preliminary surveys and establish roadway rights-of-way.

**Consider** environmental issues, and plan for public utility space and drainage easements.

**Design** roadway sections, including lane widths, shoulders, clear zones, curbs and retaining walls.

**Discuss** the addition of pedestrian and bicycle facilities.



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## HalfMoon Education Online Learning

# Roadway Design in Texas

Live, Interactive Webinar Series  
Thursday, December 17 and Friday, December 18, 2020



**Develop** roadway designs that promote the safety and mobility of the traveling public

**Apply** design guidelines and consider traffic characteristics

**Control** road access to increase safety

**Use** public involvement and environmental studies during the project planning process

**Determine** project rights-of-way

**Consider** horizontal alignment, vertical curves and hydraulic design

## Continuing Education Credits

**Professional Engineers**  
6.5 PDHs in all states

**Certified Planners**  
APA/AICP CM | 6.5



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# Agenda

*Presented by George Lueck, P.E.*

## Roadway Design Day One

Thursday, December 17, 2020 | 8:30 am - 12:00 pm CST (including a 15-min. break)

### Design Guidelines

Application of design guidelines  
Selection of design controls and criteria

Highway functions

### Traffic Characteristics

Volume, directional distribution, speed and composition of traffic  
Projection of future traffic demands

### Access Control, Management and Safety

Methods and benefits of controlling access  
Economic analysis

Key factors related to traffic crashes

### Preliminary Survey

Responsibilities of surveyor, type and order of surveys  
Establishment of right-of-way and roadway alignment  
Drainage areas and utility considerations

### Schematic Design

Purpose, need and requirements for schematics  
Geometric layout

Data collection and route studies

## Roadway Design Day Two

Friday, December 18, 2020 | 8:30 am - 12:00 pm CST (including a 15-min. break)

### Project Planning, Public Involvement and Environmental Studies

Types of environmental studies  
Project planning and topic outline

### Determination of Right-of-Way

Roadway typical section, profile grades, public utility space, and drainage easements

### Typical Sections

Purpose, definitions and types  
Pavement design

### Horizontal Alignment

Maximum curvature  
Stopping sight, passing sight and decision sight distance

### Vertical Curve

Terrain, grades, and super-elevation  
Combination of horizontal and vertical alignment

### Cross Sections and Earthwork

Traveled way  
Lane widths, shoulders, clear zones, curbs, and retaining walls

### Basic Hydraulic Design Considerations

Hydrology  
Channels, culverts, bridges and storm drains

### Pedestrian and Bicycle Facilities

### Intersections

Types and examples of intersections  
Design considerations

### Best Practices

# Webinar Information

## Day One: Thursday, December 17, 2020

8:30 am - 12:00 pm CST (including a 15-min. break)

## Day Two: Friday, December 18, 2020

8:30 am - 12:00 pm CST (including a 15-min. break)

*(please log into the webinar 15 - 30 minutes before start time)*

### Tuition

**\$299** for individual registration  
**\$199** for three or more registrants from the same company at the same time.  
**Included with your registration:** PDF seminar manual.

### How to Register

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit [www.gotowebinar.com](http://www.gotowebinar.com).

**Cancellations:** Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

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# Additional Learning

## Soil Mechanics and Slope Stabilization, Failures and Repairs

- Tues., Dec. 8, 2020 | 10:00 am - 1:45 pm CST  
- Wed., Dec. 9, 2020 | 10:00 am - 2:15 pm CST

## Construction Cost Estimating

- Wed., Dec. 9, 2020 | 8:30 am - 3:50 pm CST

## Technical Writing Workshop for Engineers

- Wed., Dec. 9, 2020 | 8:30 am - 5:00 pm CST

## Pavement Design

- Fri., Dec. 11, 2020 | 8:30 am - 4:30 pm CST

## Drones in Construction

- Fri., Dec. 11, 2020 | 10:00 am - 4:50 pm CST

## Introduction to HEC-HMS Modeling

- Mon., Dec. 14, 2020 | 8:30 am - 4:00 pm CST

## Net-Zero Energy Home Design Workshop

- Mon., Dec. 14, 2020 | 11:00 am - 2:15 pm CST  
- Tues., Dec. 15, 2020 | 11:00 am - 2:15 pm CST  
- Thurs., Dec. 17, 2020 | 11:00 am - 2:15 pm CST

## Complying with the 2021 Commercial Provisions of the Energy Conservation Code

- Tues., Dec. 15, 2020 | 8:30 am CST - 5:00 pm CST

## Structural Forensic Engineering

- Wed., Dec. 16, 2020 | 10:00 am - 1:45 pm CST  
- Thurs., Dec. 17, 2020 | 10:00 am - 2:15 pm CST

## International Existing Building Code 2018

- Wed., Dec. 16, 2020 | 8:30 am - 4:30 pm CST

## Preventing and Addressing Construction Defects and Failures

- Mon., Dec. 21, 2020 | 8:30 am - 5:00 pm CST

For more information and other online learning opportunities visit: [www.halfmoonseminars.org](http://www.halfmoonseminars.org)

# Registration

## Roadway Design in Texas

Live, Interactive Webinar - Thursday, December 17, 2020 and Friday, December 18, 2020

How to Register	
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>	
<b>Phone:</b> 715-835-5900	
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<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
<b>Complete the entire form.</b> Attach duplicates if necessary.	
Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
( )  I need special accommodations. Please contact me.	

## Tuition

- ( ) **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.
- ( ) **I am not attending.** Please send me the webinar recording:
- ☐ Streamable MP4 Video/PDF Manual for **\$279.00**.
- ☐ USB Video/PDF Manual for **\$279.00**.

**Checks:** Make payable to HalfMoon Education Inc.

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