

HalfMoon Education Live Continuing Education Webinars

Roadway Design

Online

Tuesday, November 22, 2022 | 9:00 am - 12:30 pm CST

Tuesday, November 29, 2022 | 9:00 am - 12:30 pm CST

Credits:

Professional Engineers: 6.5 PDHs

Certified Planners: CM|6.5

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Agenda

Agenda Day One: Tuesday, November 22, 2022

9:00 am - 12:30 pm CST (including a 15-min. break)

Design Guidelines

- Application of design guidelines
- Highway functions
- Selection of design controls and criteria

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
- Key factors related to traffic crashes
- Economic analysis

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
- Data collection and route studies
- Geometric layout

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 roadways in the Waco district. He later transferred to the construction division. 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.

Agenda Day Two: Tuesday, November 29, 2022

9:00 am - 12:30 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

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers in most states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers via its registration with The Practicing Institute of Engineering (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Most other states do not preapprove continuing education providers or courses.

This webinar has been evaluated and approved for 6.5 PDHs in the field on professional engineering by The Practicing Institute of Engineering.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.5 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).

Tuition

\$319 for individual registration

\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

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