

Agenda

Presented by Sidney May

Project Design Criteria

Design speed	Traffic volume
Additional considerations	

Designing Roadways

Selecting design parameters and constraints	
Reviewing design guides and standards	
Interstates, freeways and other four-lane highways	
Arterials, collectors and locals	Urban and rural
Temporary traffic control	

Design Process

Preliminary survey	Schematic design
Determining right-of-way	

Environmental Studies

Project planning	Public involvement
Environmental controls, commitments and documents	

Designing Typical Sections

Pavement	Shoulders
Ditches	Medians
Plan and profiles	
Subsurface conditions and investigations	

Horizontal and Vertical Alignment

Sight distance	Horizontal alignment
Vertical alignment	

Cross Sections and Earthwork

Balanced earthwork
Suitable and unsuitable material

Intersections

Signalized vs. un-signalized	Signal warrants
Turning movements	

Hydraulic Design Considerations

Drainage calculations	Designing drainage structures
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Pedestrian and Bicycle Facilities

Trails, sidewalks and cross-walks	Complete streets
ADA compliance	

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Roadway Design

Live, Interactive Webinar - Tuesday, May 14, 2024

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HalfMoon Education Inc.
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Learning Objectives

You'll be able to:

Discuss roadway design criteria, including design speed and traffic volume.

Review design guides and standards for four-lane highways, arterials, collectors and locals.

Consider environmental studies and public input.

Discuss design considerations for pavement, medians, shoulders and ditches.

Explore horizontal and vertical alignment.

Add pedestrian and bicycle facilities to streets and highways.



HalfMoon Education Inc.,
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Roadway Design

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Discuss design criteria, including design speed and traffic volume

Review design guides and standards

Explore the design process, including preliminary surveys, right-of-way determination and schematic design

Learn about the design of pavement, medians, shoulders, ditches and intersections

Understand drainage calculations and examine the design of drainage structures

Continuing Education Credits

Professional Engineers
7.0 PDHs

Certified Planners
CM | 7

Landscape Architects
7.0 HSW CE Hours
7.0 LA CES HSW PDHs



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Webinar Information

Online - Tuesday, May 14, 2024

Log into Webinar 8:00 - 8:30 am CDT	Break 12:30 - 1:15 pm CDT
Morning Session 8:30 am - 12:30 pm CDT	Afternoon Session 1:15 - 5:00 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Sidney May
Civil Engineer in Birmingham, AL
Ms. May is a multi-state licensed professional civil engineer with over 15 years of work experience in transportation design and construction, civil site design, and environmental planning and compliance. She is the president and principal engineer of her own women-owned small business (WOSB) engineering firm. Ms. May attended the University of Alabama and holds a B.S. degree in Civil Engineering. Her areas of expertise include public works processes for local, state, and federal projects; designing and managing capital improvements projects; developing project scope documents; creating project estimates and budgets; preparing design drawings; developing specifications for bidding purposes; and managing projects during construction. Ms. May develops course curriculums and instructs PDH seminars and professional engineering exam review courses. She volunteers with local engineering academies and S.T.E.A.M. programs and serves as a professional mentor for civil engineering students at the University of Alabama. She recently served as the Birmingham Branch Director of the American Society of Civil Engineers (ASCE) and is on the National Policy Committee for Professional Licensure.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), 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 and landscape architects via its registration with the Landscape Architecture Continuing Education System. Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 7.0 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|7 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:
7.0 HSW PDHs (LA CES)

Additional Learning

- Pruniversity: The Short Course on Pruning and Training Trees**
- Tuesday, April 16, 2024 | 9:00 am - 4:30 pm CDT
 - The Tree Course for the Southeastern United States**
- Wednesday, April 17, 2024 | 8:00 am - 3:30 pm CDT
 - Deep Dive into Construction Change Orders**
- Thursday, April 18, 2024 | 1:00 - 3:00 pm CDT
 - Handling Ethical Issues in Professional Engineering Practice**
- Friday, April 19, 2024 | 1:00 - 2:00 pm CDT
 - Permeable Pavements: Applications, Design and Installation**
- Friday, April 19, 2024 | 9:00 am - 4:00 pm CDT
 - Saltwater Intrusion into Freshwater Resources**
- Friday, April 19, 2024 | 9:00 am - 12:15 pm CDT
 - Deep Dive into Water Quality Tests**
- Monday, April 22, 2024 | 8:30 - 10:30 am CDT
 - The National Environmental Policy Act (NEPA) Review Process**
- Monday, April 22, 2024 | 9:00 am - 4:00 pm CDT
 - Controlling Shoreline Erosion and Creating Living Shorelines on Lakes and Rivers**
- Thursday, April 25, 2024 | 8:30 am - 3:30 pm CDT
 - Land Descriptions**
- Thursday, April 25, 2024 | 9:00 am - 12:00 pm CDT
 - Pavement Design, Construction and Maintenance**
- Thursday, April 25, 2024 | 8:30 am - 4:00 pm CDT
 - The Urban Forest: Challenges and Opportunities**
- Thursday, April 25, 2024 | 9:00 am - 4:30 pm CDT
 - Calculating Embodied and Operational Carbon Footprints for Buildings**
- Friday, April 26, 2024 | 1:00 - 4:00 pm CDT
 - Complying with NPDES Industrial Stormwater Requirements**
- Friday, April 26, 2024 | 8:30 am - 3:30 pm CDT
 - Working with the IECC's 2021 Climate Zone Maps**
- Friday, April 26, 2024 | 9:30 am - 12:30 pm CDT
 - Plastic Pollution: What Is It and What Do We Do About It**
- Thursday, May 2, 2024 | 1:00 - 3:00 pm CDT
 - Introduction to HEC-HMS Modeling**
- Friday, May 3, 2024 | 9:00 am - 4:30 pm CDT
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