

Credit Information

Missouri Soil Mechanics including Geotechnical Design and Construction Considerations

This webinar is open to the public and offers 6.5 PDHs to professional engineers, and 6.5 HSW continuing education hours to architects and landscape architects in Missouri. Educators and courses are not subject to preapproval in Missouri.

Engineers, architects and landscape architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this course for .65 CEUs in the Specialty Area of Sitework (Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

International Existing Building Code in Missouri

This webinar is open to the public and offers 7.0 PDHs to professional engineers, and 7.0 HSW continuing education hours to architects in Missouri. Educators and courses are not subject to preapproval in Missouri.

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The American Institute of Architects Continuing Education System has approved HalfMoon Education as a sponsor of continuing education (Sponsor No. J885). Course approval is currently pending. Only full participation is reportable to the AIA CES. Visit this course listing at www.halfmoonseminars.org for updates on this credit.

The International Code Council has approved this course for .7 CEUs in the Specialty Area of Building (Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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

Recordings of each webinar are available for purchase. See course listing online 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.

Live, Interactive Webinars

- Missouri Soil Mechanics including Geotechnical Design and Construction Considerations
- International Existing Building Code in Missouri

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Live, Interactive Webinars

Missouri Soil Mechanics including Geotechnical Design and Construction Considerations

- Tuesday, April 5, 2022 | 8:30 am - 4:15 pm CDT

International Existing Building Code in Missouri

- Wednesday, April 13, 2022 | 8:30 am - 4:20 pm CDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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HalfMoon Education Live Webinars



Missouri Soil Mechanics including Geotechnical Design and Construction Considerations

Tuesday, April 5, 2022 | 8:30 am - 4:15 pm CDT

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU | HSW Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs International Code Council: .65 CEUs (Sitework)



International Existing Building Code in Missouri

Wednesday, April 13, 2022 | 8:30 am - 4:20 pm CDT

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: Pending International Code Council: .7 CEUs (Building)

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Missouri Soil Mechanics including Geotechnical Design and Construction Considerations

Tuesday, April 5, 2022 | 8:30 am - 4:15 pm CDT (incl. a 45-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours AIA: 6.5 LU|HSW Landscape Architects: 6.5 HSW CE Hours LA CES: 6.5 HSW PDHs International Code Council: .65 CEUs (Sitework)

Agenda

Soil Investigation and Classification	K. McLain
Properties of soil	
• Importance of recognizing soil properties	
• Formation of soils	• Types of soils in Missouri
Soil investigation on Missouri construction sites	
• Site reconnaissance	• Geology and visual observations
• Drilling and boring	• Test pits
• Establishing appropriate investigational methods	
• Obtaining and reviewing geotechnical reports	

Reviewing Hydraulic and Mechanical Properties of Missouri Soils	K. McLain
Soil permeability	Compressibility of soil
Soil hydraulics	
• Saturation, hydraulic gradient, and conductivity	
Drained and undrained shear strength	
• Vertical and lateral earth pressure	
Stress and failure in soils	

Practical Considerations of Geotechnical Construction	L. Simonton
Understanding geotechnical report recommendations	
Introduction to aggregate pier ground improvement	
Other types of ground improvement	
Deep foundation alternatives (drilled and driven piling)	
• Types of available equipment (drill rigs)	
• Cost considerations of foundation alternatives	
Introduction to earth retention for support of excavation	

Determining and Increasing Slope Stability	K. McLain
Natural and engineered slopes	
Reviewing basic concepts of slope stability	
Understanding slope failures	
Impact of surface water and groundwater	
Examining slope stabilization methods	
• Unloading	• Draining and compaction
• Reinforcement	• Soil improvement
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Added Value:

Enhance your learning - a recording of these webinars will be available for attendees to stream online for two weeks after the program date. (live webinar attendance required to receive credit)

International Existing Building Code in Missouri

Wednesday, April 13, 2022 | 8:30 am - 4:20 pm CDT (incl. a 30-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours AIA:Pending International Code Council: .7 CEUs (Building)

Agenda

Working with the International Existing Building Code 2015, 2018 and 2021
International Existing Building Code adoption by state and local governments
Existing building stock: challenges and opportunities
Highlights of the 2015, 2018 and 2021 codes

Chapters 1-3
Chapter 1: scope and administration
Chapter 2: definitions
Chapter 3: provisions for all compliance methods
• Option 1: prescriptive compliance method
• Option 2: work area compliance method
• Option 3: performance compliance method

Chapters 4-6
Repairs
Classification of work
Prescriptive compliance method

Chapters 7-9: Alterations
Level 1 alterations: replacement of building components
Level 2 alterations: reconfiguring space
Level 3 alterations: exceeding 50 percent of building area

Chapter 10: Change of Occupancy
Change of occupancy classification
Code compliance for building elements
Means of egress

Chapter 11: Additions
Heights and areas
Structural requirements

Chapters 12-14
Historic buildings
Moved or relocated buildings
Performance compliance method

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Faculty

Missouri Soil Mechanics including Geotechnical Design and Construction Considerations

Kevin W. McLain, PhD Missouri University of Science & Technology Dr. McLain earned his bachelor's degree in Civil Engineering (Geologic Option) from Kansas State University in 1988. He joined The Missouri Department of Transportation (MoDOT) designing structures then transferring to the Geotechnical Section. While working, Dr. McLain earned a master's degree from Kansas State University in Civil (Geotechnical) Engineering (2003). He then earned a master's degree (2010) and doctorate (2015) in Construction Engineering and Project Management from Iowa State University. Dr. McLain became the Geotechnical Director at MoDOT in 2013. He retired from MoDOT in 2020 to pursue more teaching opportunities at the Missouri University of Science and Technology (MS&T). During his tenure at MoDOT, Dr. McLain brought cone penetration testing (CPT), drill rig hammer energy testing and inclinometer installation and use to the department. He also led a team to overhaul the Geotechnical Section Labs' data monitoring, collection and reporting systems. Dr. McLain teaches courses in Geotechnical Engineering, Intermediate Soils Mechanics, Soil Mechanics for Geo-Professionals, Designing with Geosynthetics, In-Situ Soil Testing, Construction Methods and Construction Scheduling. He is also a faculty advisor to the student American Society of Civil Engineers (ASCE) student chapter in Rolla. Dr. McLain is a registered professional engineer and registered geologist in Missouri. He is also a member of ASCE in both the Construction and Geo Institutes.

Lyle Simonton, P.E. , LEED® AP Director of Business Development, Subsurface Constructors, Inc., of St. Louis, MO Mr. Simonton graduated from the University of Missouri-Rolla (MS&T) with a bachelor's degree in Geological Engineering in 1997 and received a master's degree in Civil (Geotechnical) Engineering from the University of Illinois – Champaign Urbana in 1999. He is a registered professional engineer in Missouri. Mr. Simonton is a member of ASCE and DFI and he is currently on the Soil Improvement Committees for the ASCE Geo-Institute and the Deep Foundations Institute and serves on the Geo-Institute's Local Involvement Committee. He is also a past president for the ASCE St. Louis Section and he has been an active member of the St. Louis Geo-Institute Chapter throughout his career. Mr. Simonton is also current serving as the Membership Chairperson for the ASCE St. Louis Section and is an ASCE Mentor. He is on the Board of Directors and Education and Legislative Committees for the Southern Illinois Builders Association (SIBA). Mr. Simonton also sits on the Professional Advisory Board for the Civil, Environmental and Infrastructure Engineering Department at Southern Illinois University – Carbondale.

International Existing Building Code in Missouri

Jared Agee, MCP CBO Director of Building and Code Enforcement for St. Charles County, Missouri Mr. Agee is the director of Building and Code Enforcement for St. Charles County, Missouri. Previously, he worked in urban and suburban municipal governments managing building code enforcement, facilities, and information technology. Prior to his public sector positions, Mr. Agee worked in the construction industry in design and project management. He has an undergraduate degree in Architectural and Mechanical Design and a graduate degree in Public Administration and Policy Analysis. As a Master Code Professional, Mr. Agee is one of approximately 800 people to obtain the highest level of certification from the International Code Council. He currently holds a total of 28 certifications in building, energy, plumbing, mechanical, electrical, and accessibility areas. Mr. Agee is a former president of the Missouri Association of Building Officials and Inspectors (MABOI). In addition, he founded Regimen Consulting LLC, which provides code training and technology consultation to various organizations across the country.