

Credit Information

National Electrical Code 2020

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all 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 and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Electrical (Preferred Provider No. 1232).

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

Seismic Design and Construction

This webinar offers 7.5 PDHs to professional engineers and 7.5 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 7.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .75 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

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Live, Interactive Webinars

- National Electrical Code 2020
- Seismic Design and Construction

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Live, Interactive Webinars

National Electrical Code 2020

- Monday, September 13, 2021 | 8:30 am - 5:00 pm CDT

Seismic Design and Construction

- Tuesday, September 14, 2021 | 11:00 am - 3:00 pm CDT
- Wednesday, September 15, 2021 | 11:00 am - 3:00 pm CDT

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and see other learning opportunities, please visit:**

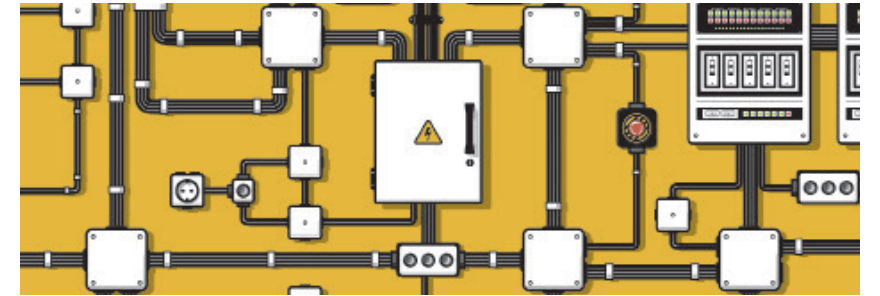
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AIA: 7.0 LU | HSW International Code Council: .7 CEUs (Electrical)



Seismic Design and Construction

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Credits: Professional Engineers: 7.5 PDHs Architects: 7.5 HSW CE Hours
AIA: 7.5 LU | HSW International Code Council: .75 CEUs (Building)

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National Electrical Code 2020

Monday, September 13, 2021 | 8:30 am - 5:00 pm CDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$199 per registrant for three or more

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AIA: 7.0 LU|HSW International Code Council: .7 CEUs (Electrical)

Agenda

Overview of Major Changes in 2020 National Electrical Code

Fault current references	Definition statements
Alignment of GFCI Requirements	Equipment grounding conductor
Ampacity of conductors	

New Articles for the 2020 NEC

242 Overvoltage Protection	311 Medium Voltage Conductors
337 Type P Cable	800 Gen Req for Communication Systems

Chapter 1: NEC General, Articles 100 – 110

Definitions	Electrical connections
Identification of disconnecting means	Space about electrical equipment

Chapter 2: Wiring and Protection, Articles 210 – 250

Grounded conductors	Branch circuits
Feeder circuits	Services
Overvoltage protection	Grounding and bonding

Chapter 3: Wiring Methods, Articles 300 – 370

Conductors for general wiring	Medium voltage cable
Conductor volume calculations	Type P cable
Multi-outlet assembly	

Chapter 4: Equipment for General Use, Articles 400 – 490

Switches	Receptacles	Luminaries
Appliances	Motor Circuits	

Chapter 5: Special Occupancies, Articles 500 – 590

Classified locations	Commercial garages
Motor fuel dispensing facilities	Assembly occupancies
Agricultural buildings	RV parks
Marinas and docks	Temporary installations

Chapter 6: Special Equipment, Articles 600 – 695

Electric signs	Elevators and lifts
Electric vehicles	Pools and fountains
PV systems	Fire pumps

Chapter 7: Special Conditions, Articles 700 – 770

Emergency systems	Interconnected power production
Critical operations power systems	Fire alarm systems
Optical fiber cables	

Chapter 8: Communications Systems, Articles 800 – 840

General requirements	Communications circuits
Powered broadband systems	

Chapter 9: Tables and Informative Annexes

Tables	Annex C Raceway Fill
Annex D Examples	Final Notes

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Seismic Design and Construction

Tuesday, September 14, 2021 | 11:00 am - 3:00 pm CDT (incl. a 15-min break)

Wednesday, September 15, 2021 | 11:00 am - 3:00 pm CDT (incl. a 15-min break)

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Agenda Day One

Seismology and Earthquake Actions

Earthquake characteristics
Effects of soil conditions
Western, central, and eastern U.S. seismicity

Structural Dynamics and Response

Ground motions and structural response
Response spectra
Damping
Modal superposition analysis

Modern Philosophy of Seismic Design

Seismic design objectives
Inelastic response and ductility
Proportioning

U.S. Seismic Codes

History
Performance objectives
Hazard levels

Agenda Day Two

ASCE 7 Seismic Design

Mapped spectral response
Design response spectrum
Seismic design category and design factors
Seismic force resisting systems
Estimating period
Structural irregularities
Equivalent lateral force procedure
Load combinations, overstrength, redundancy
Diaphragms and shear walls
Deflection limitations

Material-Specific Seismic Force Resisting Systems

International Building Code (IBC) provisions
American Institute of Steel Construction (AISC 341) provisions
American Concrete Institute for Structural Concrete (ACI 318) provisions
American Concrete Institute for Masonry Structures (ACI 530) provisions

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Faculty

National Electrical Code 2020

JD White *Consultant at Freelance Electrical System Design and Drafting*

Mr. White's past ten years with Columbus State Community College in Columbus, Ohio, as its Skilled Trades Program coordinator, has provided him with insights beyond teaching, including migration to semesters, and providing oversight of 144 apprenticeship courses and 28 open enrollment courses covering construction, carpentry, electrical, plumbing, and welding. Mr. White helped craft 15 plans for study for various certificates, AAS majors, and ATS majors. He has been an active part of articulation agreements, with various vocational career programs and apprenticeship programs. He started a new open enrollment program in June of 2007, which had over 200 active students, and filled 28 course sections per term, prior to him handing it over to a new faculty member. Mr. White is presently working with 10 apprenticeship partnerships with annual enrollment of 1,500 students. He has oversight of five labs, equipment, materials, and lab personnel.

Seismic Design and Construction

Jon F. Sfura, Ph.D., P.E., S.E.

Senior Associate at Wiss, Janney, Elstner Associates, Inc. in Northbrook, Illinois

Dr. Sfura is a senior associate at Wiss, Janney, Elstner Associates, Inc. in Northbrook, Illinois. His experience includes the assessment of structural distress and serviceability problems, the investigation of structural failures, peer review, and the rehabilitation of structures. He has published and lectured on seismic design and performance, and the assessment and rehabilitation of structures.

Dr. Sfura received his B.S. degree in Civil Engineering from Purdue University, and his M.S. and Ph.D. degrees in Civil Engineering from the University of Illinois. He studied the nonlinear seismic response of asymmetric steel structures to earthquake ground motions as a doctoral candidate. He is a licensed structural engineer in Illinois, civil engineer in California, and professional engineer in Florida and Michigan. He is a member of the Building Seismic Safety Council (BSSC), the Earthquake Engineering Research Institute (EERI), and the Structural Engineers Association of Illinois (SEAOL).

Wiss, Janney, Elstner Associates, Inc. is an employee-owned interdisciplinary firm with 19 offices across the United States. Its team of structural engineers, architects, and material scientists use problem solving and a hands-on technical approach to construction challenges, with virtually every construction material, structural system, and architectural component.

Additional Learning

Small Wind Energy Systems

- Wed, Aug 11, 2021 | 8:30 am - 4:30 pm CDT

2021 International

Wildland-Urban Interface Code

- Thurs, Aug 19, 2021 | 8:30 am - 4:30 pm CDT

Soil Mechanics, Bearing Capacity and Slope Stabilization

- Fri, Aug 20, 2021 | 8:30 am - 4:30 pm CDT

How To Handle Ethical Issues

Associated with Defects and Failures

- Tues, Aug 24, 2021 | 9:00 - 11:00 am CDT

Designing for Accessibility under ADA Standards and IBC

- Tues, Aug 24, 2021 | 8:30 am - 12:15 pm CDT

- Wed, Aug 25, 2021 | 8:30 am - 12:15 pm CDT

Highways, Byways and Private Roads

- Wed, Aug 25, 2021 | 11:00 am - 3:30 pm CDT

Pavement Design

- Wed, Aug 25, 2021 | 8:30 am - 4:30 pm CDT

Construction Cost Estimating

- Thurs, Aug 26, 2021 | 8:30 am - 3:50 pm CDT

International Building Code 2021

- Thurs, Aug 26, 2021 | 10:00 am - 2:30 pm CDT

- Fri, Aug 27, 2021 | 10:00 am - 1:30 pm CDT

Residential and Small Commercial Solar Photovoltaic Energy Systems

- Fri, Aug 27, 2021 | 8:30 am - 4:30 pm CDT

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