

Credit Information

Arc Flash Update NFPA 70E

This webinar offers 8.0 PDHs to professional engineers and 8.0 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 8.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .8 CEUs in the specialty area of Electrical (Preferred 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).

National Electrical Code 2020

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Live, Interactive Webinars

- Arc Flash Update NFPA 70E
- National Electrical Code 2020

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Live, Interactive Webinars

Arc Flash Update NFPA 70E 2021

- Wednesday December 1, 2021 | 9:00 am - 1:40 pm CST
- Thursday December 2, 2021 | 9:00 am - 1:40 pm CST

National Electrical Code 2020

- Tuesday, December 28, 2021 | 8:30 am - 5:00 pm CST

To register, view detailed presenter biographies,
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AIA
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Provider



Arc Flash Update NFPA 70E 2021

Wednesday December 1, 2021 | 9:00 am - 1:40 pm CST (incl. a 40-min break)
Thursday December 2, 2021 | 9:00 am - 1:40 pm CST (incl. a 40-min break)
Tuition: \$289 per registrant, \$239 per registrant for three or more
Credits: Professional Engineers: 8.0 PDHs Architects: 8.0 HSW CE Hours
AIA: 8.0 LU| HSW International Code Council: .8 CEUs (Electrical)

Agenda Day One		
Recognize and Navigate the NFPA 70E and Apply these Standards Safely		
Article 100 Review Definitions	Layout of NFPA 70E	
OSHA and the NFPA	Employer/employee responsibilities	
Recognize the Causes and Results of Arc Flashes to Promote Safety of Equipment and Personnel		
Hierarchy of hazard controls	What is an arc flash event?	
Identify the Types, Categories and Uses of ARC Rated PPE, Tooling and Testing Equipment for Performing Tasks on Energized Parts to Ensure Safety for Equipment and Personnel		
PPE selection using the task assessment method		
PPE selection using the analysis method		
Categories of PPE		
Create and Determine Shock and Flash Protection Boundaries for the Safe Work Boundaries around Energized Electrical Parts		
Limited approach	Restricted approach	
Arc flash boundaries		
Agenda Day Two		
Demonstrate how to Populate Live Work Permits to Document Safe Work Procedures		
Documentation	Signatures	
Determine Correct Tooling and Testing Equipment for Performing Tasks on Live Panels		
Tester and testing failures	Live-dead-live	
AVT's		
Understand and Implement the 8 Step Process in Establishing an Electrically Safe Working Condition		
110.1 Elimination		
Understand the Differences between a Task Assessment and an Incident Energy Analysis		
130.5(C)	130.5(G)	
One or the other but not both		
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Agenda

2020 National Electrical Code: Overview of Major Changes

Code-wide changes

New articles

Chapter 1 General

Article 90 – Introduction

Article 100 – Definitions

Article 110 – Requirements for electrical installations, working space, terminations, Listing reqs. SCCR and available fault currents, labeling

Chapter 2: Wiring and Protection

Article 200: Grounded conductors

Article 210: Branch Circuits, GFCI and AFCI protection receptacle reqs. Voltage drop calculations

Article 220: Load calculations

Article 230: Services SPD's for dwelling, em disconnecting means

Article 240

Protection of flexible cords and cables

Tap conductors

Fuses

Circuit breakers

Article 250 Grounding and Bonding

Grounding of service entrances

Grounding of separately derived systems

Grounding electrodes

Sizing of grounding electrode and grounding conductor

Bonding of services

EGC sizing and requirements

Sizing of grounding electrode and grounding conductor

Bonding of services

Sizing bonding jumpers and grounds

EGC sizing and requirements

Chapter 3 Wiring Methods and Materials

Article 300

Underground installation

Securing and supporting

Article 310 Conductors

Uses permitted

Parallel installations

Table 310.12: Dwelling feeders and services

Adjustments and corrections

Roof tops

Wiring Materials

Box fill

Pull box – straight, angle, U-pull, and splices

Article 311 through 399

Chapter 4: Equipment for General Use

Article 404: Switches

Article 408: Receptacles

Article 410: Luminaires

Chapter 4

Article 422: Appliances

Article 424 Space heating equipment

Article 430: Motors

Article 440: Air conditioning and refrigeration equipment

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Faculty



Webinars presented by
Mark D. Cook *Electrical Education Specialist, Faith Technologies*
Mr. Cook is a master electrician in Wisconsin and Arizona. He holds an administrator's and a journeyman's license in Washington State. He has been in the electrical industry since 1978, and he owned and operated his own electrical commercial, residential and light industrial service company in Arizona from 1994 until the summer of 2015. Mr. Cook was an instructor for the Independent Electrical Contractors of Arizona (I.E.C), a four-year apprenticeship program facilitated at Gateway Community College in Phoenix. Mr. Cook was also an instructor for the Electric League of Arizona educational program, teaching classes on grounding & bonding and the National Electrical Code. He has presented the NEC for HalfMoon Education and the Arizona Department of Transportation as well. He authors "Code Corner" a monthly article appearing in *The Electric Times* and has contributed articles to the *IAEI* magazine. Mr. Cook is a National Fire Protection Association member, an International Association of Electrical Inspectors member and a certified commercial electrical inspector for the State of Wisconsin. He was recently appointed to Code Making Panel-2 for the National Electric Code, NFPA 70. He is an approved CEU presenter.

Additional Learning

IRC Significant Changes – Chapters 1-10 - Fri, Nov 5, 2021 11:00 am - 3:30 pm CDT	
Moisture Control in Buildings: Designing, Constructing and Remodeling for Wet Weather - Fri, Nov 5, 2021 8:30 am - 4:30 pm CDT	Construction Cost Estimating - Tues, Nov 16, 2021 7:30 am - 3:30 pm CST
Engineering Project Management - Mon, Nov 8, 2021 8:30 am - 5:00 pm CST	Introduction to HEC-RAS Modeling - Tues, Nov 16, 2021 8:30 am - 5:00 pm CST
Ethical Issues in Sustainable Design: Understanding and Preventing Greenwashing - Tues, Nov 9, 2021 8:30 - 9:30 am CST	Focusing on the Legal Ramifications of Drone Use for Utilities - Fri, Nov 19, 2021 10:00 am - 12:00 pm CST
National Electrical Code 2020: Grounding and Bonding - Wed, Nov 10, 2021 8:30 am - 5:00 pm CST	Industrial Stormwater Management - Fri, Nov 19, 2021 9:00 am - 4:00 pm CST
HVAC Primer for Design Professionals - Fri, Nov 12, 2021 8:30 am - 4:30 pm CST	Designing and Constructing a Net-Zero Energy Home in the Midwest - Mon, Nov 22, 2021 8:30 am - 1:00 pm CST - Tues, Nov 23, 2021 8:30 am - 1:30 pm CST
IRC Significant Changes – Chapters 11-44 - Fri, Nov 12, 2021 11:00 am - 3:30 pm CST	The Value and Practice of Biophilic Design - Tues, Nov 30, 2021 10:30 am - 12:30 pm CST - Tues, Dec 7, 2021 10:30 am - 12:30 pm CST - Tues, Dec 21, 2021 10:30 am - 12:30 pm CST
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