



A Word from the Chair

2020 NEC—The Day has Arrived!

by Clayton Schenck, Chair, Board of Directors

issued on or after Nov 17, 2020, must comply with the 2020 edition.”

After this year of tremendous uncertainty due to COVID, it's good to see a decision! Thank you to the Board of Electricity!

Top Changes in the 2020 NEC

- **Emergency Disconnects:** Helps to improve electrical safety for emergency responders at one- and two-family dwelling installations. Required for all single- and two-family dwellings; must function from outside the dwelling; must be readily accessible; applies to generator and energy storage systems.
- **Surge Protection:** New Article 242 includes service lines to dwelling units; must be part of service equipment or adjacent to; may be located at each level of downstream distribution.
- **Other new articles:** 311 (MV Conductors & Cables); 337 (Type P Cable); 800 (Gen Requirements for Communications Systems).
- **Panel boards and switchboards** to have a S.C.C.R. equal to available fault current. ART 408.6.
- **Marinas and Boatyards:** Updates ground-fault protection and leakage-current measurement device requirements.
- **Power Over Ethernet:** Adapts NEC requirements to meet the installation practices of new and evolving technologies.
- **Lighting Load Calculations:** Modernized Table 220.12 to reflect efficiency in energy usage.



Electrical Association

Empowering Contractors

- **Reorg of Art 310:** Includes user-friendly numbering
- **New general requirement:** Covering cables installed exposed on ceiling surfaces and sidewalls
- **Removed Articles 280 (SPDs over 1000V) and 285 (SPDs 1000V or less).** These articles are now found in Article 242 (Overvoltage Protection).

License Exams

In their announcement, the DLI stated: “License exams will continue to cover material from the 2017 NEC until Jan 1, 2021. Exams given after that date will cover material from the 2020 NEC.”

The DLI offers the exam in St Paul, New Ulm and Duluth. Before you take the exam, go to the DLI's website and read how to prepare for entering the building under the COVID precautions and requirements. Bottom line: wear a facemask or you won't be allowed in. Each location has several dates open for testing. Learn more: <http://tiny.cc/7wv4tz>

The Electrical Association is offering exam prep courses based on the 2020 NEC from this day forward. You can choose from several different formats: 2-day classroom style taught by Chad Kurdi; self-paced online; and, a live, online 9-week course starting Feb 4, 2021, which will be taught by Jeff Keljik.

Jump to Clara's article on page 2 to read more about how training is changing at the Electrical Association.

*Happy Holidays to you and your family,
and may we all find happiness & success in 2021!*

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From the Executive Director

How COVID is Changing EA's Training

by Clara Albert, CAE, Executive Director

In these days, times are uncertain and information seems to change constantly. At the Electrical Association, we want to provide you with service that will ensure

success through these uncharted territories.

Although our education department remains strong, it has been the most affected by COVID; social distancing has caused our classroom numbers to drop. We are following the governor's new orders as well as the guidelines at each of our class venues. Thankfully, our forward-thinking leadership guided us to develop online courses over a decade ago, and we are mostly doing business as usual. However, we are continually adding new classes to the online schedule.

CONTINUING EDUCATION

You can select from **live, online classes** and **self-paced online classes** to receive your continuing education (in addition to the **traditional classroom** formats around Minnesota and South Dakota).

Live, Online Classes

- Offered in increments of 2 hours and 8 hours

Self-Paced Online Classes

- Offered in increments of 2, 4, and 8 hours
- Once you purchase the course, you will have 3 months to complete the materials and score a 70% or higher on the section quizzes and final exam.

Traditional Classroom

- Offered in increments of 8 or 16 hours
- Coming to Brooklyn Center, Roseville, Bloomington, Mankato, Elk River, Cottage Grove, St Cloud, Worthington, Baxter, Marshall, Prior Lake, Plymouth & Owatonna
- NEW in 2021! South Dakota Tour begins Jan 16 in Sioux Falls and will continue on to Yankton, Watertown, Aberdeen, Brookings and Mitchell

EXAM PREP CLASSES

The Electrical Association is offering exam prep courses based on the 2020 NEC. You can choose from several different formats:

- 2-day classroom style taught by Chad Kurdi
- self-paced online
- live, online 9-week course starting Feb 4, 2021, which will be taught by Jeff Keljik
- Exam Prep Pre-Test (online)

REMINDER for MASTERS!

Minnesota Masters renew in February! If you are planning to get your CEs online, start ASAP! Register yourself for each class now so there is no doubt that you will reach the full 16 credits. Be careful not to take the same course topic twice—in MN, you can't receive continuing education credits for a duplicate class!

Thank you to everyone who has supported the Electrical Association this year! Everything you do makes a difference!

Best wishes for a safe and happy holiday season!

You Need to Know

COMPLIANCE

2020 National Electrical Code updates... The MN Board of Electricity has adopted the 2020 NEC. Electrical work authorized by permits issued on or after Nov 17 must comply with the 2020 edition Exams will continue to cover material from the 2017 NEC until Jan. 1, 2021. Exams given after that date will cover material from the 2020 NEC. (dli.mn.gov/)

New Local Taxes... Beginning January 1, 2021, the following new local taxes are administered by the MN Department of Revenue: Nobles County Transit Sales and Use 0.5%; Lake of the Woods County Lodging 3.0%. Learn more: <http://tiny.cc/l9n4tz>.

ECONOMY

US Consumer Price Index... In October, the Consumer Price Index for All Urban Consumers was unchanged on a seasonally adjusted basis; rising 1.2% over the last 12 months, not seasonally adjusted. The index for all items less food and energy was unchanged in October (SA); up 1.6% over the year (NSA).

MN Interest Rates... 30-year fixed 2.9%; 15-yr fixed 2.48%. (www.bankrate.com)

ENERGY

Free Smart Thermostats... Cut energy costs and earn annual bill credits by installing free smart thermostats at your small business. Sponsored by Xcel Energy.MN and CEE. (mncee.org)

Prairie Island Nuclear Plant... The US Department of Energy has awarded just under \$14 million for an attempt to build a hydrogen-energy production facility at Xcel Energy's Prairie Island Nuclear Generating Station in Red Wing with the help of a nuclear research lab in Idaho. Idaho National Laboratory and Xcel Energy will work on devising and building the first company to produce carbon-free hydrogen at a nuclear plant using this technology facility. (<http://energy.einnews.com/minnesota/>)

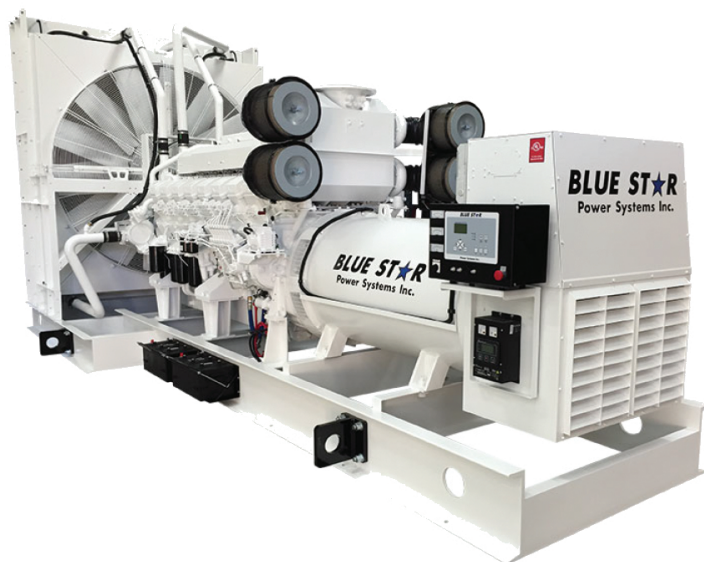
LABOR & MANAGEMENT

US Unemployment Rate... In October, the unemployment rate declined by 1 percentage point to 6.9%, and the number of unemployed persons fell by 1.5 million to 11.1 million. Both measures have declined for 6 consecutive months but are nearly twice their February levels (3.5% and 5.8 million, respectively).

In October, 21.2% of employed persons teleworked because of the coronavirus pandemic, down from 22.7% in September. These data refer to employed persons who teleworked or worked at home for pay at some point in the last 4 weeks specifically because of the pandemic. (bls.gov)

SAFETY

OSHA Announces \$2,856,533 In Coronavirus Violations... Frequently Cited Standards Related to COVID-19 Inspections: Provide a medical evaluation before a worker is fit-tested or uses a respirator; Establish, implement, and update a written respiratory protection program with required worksite-specific procedures; Train workers to safely use respirators and/or other PPE in the workplace, and retrain workers about changes in the workplace that might make previous training obsolete; Store respirators and other PPE properly in a way to protect them from damage, contamination, and, where applicable, deformation of the facepiece and exhalation valve; Keep required records of work-related fatalities, injuries, and illness. (osha.gov)



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Masters!

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Before Your License
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St Cloud • Worthington • Baxter • Marshall
Prior Lake • Plymouth • Owatonna

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HUGE! 16 CEs Self-Paced Online!

**Masters! Get all 16 hours for your renewal due Feb 28, 2021,
online at your own pace any day, any time!**

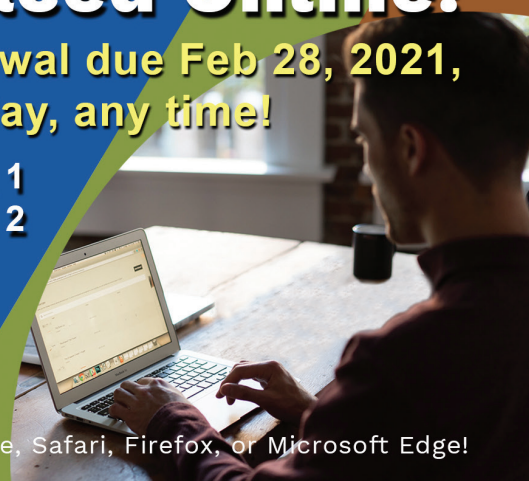
**NEW
CLASS!**

2020 NEC®



Accessible on your smartphone or tablet using Chrome, Safari, Firefox, or Microsoft Edge!

- (2 CE) You Be the Inspector!! Part 1
- (2 CE) You Be the Inspector!! Part 2
- (2 CE) Grounding & Bonding
- (2 CE) Overcurrent Protection
- (4 CE) Code Highlights Part 1
- (4 CE) Code Highlights Part 2



2021 New & Improved Curriculum!

**NEW
CLASS!**

Edina • Mankato • Rogers • Cottage Grove • Worthington
St Cloud • Baxter • Marshall • Prior Lake • Plymouth • Owatonna
PLUS a new SOUTH DAKOTA tour!



Register EARLY! Seats are LIMITED due to Covid-19 distancing guidelines!

www.electricalassociation.com



2021 Education Calendar

Masters! We've added a ton of dates to help you fit 16 CE into your busy schedule—Due Feb 28!

CODE TRAINING Based on the 2020 NEC®

16 Continuing Ed. Credits

Classroom—Multi-State Approval; check our website. (2 days; 8am-5pm)

Dec 10-11	Brooklyn Center 2020 Code changes. Chad Kurdi, Trainer.
Dec 11-12	Roseville Grounding & Bonding, Motor Install Reqt's, Overcurrent Protection. Mike Miller.--Switched to ONLINE
Jan 8-9	Bloomington 2020 Code changes. Chad Kurdi, Trainer.
Jan 14-15	Mankato Grounding & Bonding, Motor Install Reqt's, Overcurrent Protection. Jeff Kunkel.
Jan 20-21	Elk River Grounding & Bonding, Motor Install Reqt's, Overcurrent Protection Jeff Kunkel.
Jan 29-30	Cottage Grove 2020 Code Highlights; Motor Installations; NFPA 70E (incl 4 Tech CEs). Chad Kurdi.
Feb 4-5	St Cloud Code Highlights; You Be the Inspector *NEW! Mike Miller, Trainer.
Feb 11-12	Worthington 2020 Code Highlights; Motor Installations; NFPA 70E (incl 4 Tech CEs). Mike Miller.
Feb 18-19	Baxter Grounding & Bonding, Motor Install Reqt's, Overcurrent Protection. Jeff Kunkel, Trainer.
Feb 26-27	Marshall 2020 Code Highlights; You Be the Inspector *NEW! Mike Miller, Trainer.

THANK YOU

to our Cottage Grove Sponsor



8 Continuing Ed Credits - SOUTH DAKOTA TOUR with Mike Miller.

Classroom—Multi-State Approval; check our website. (1 day; 8am-5pm)

Jan 16	Sioux Falls. You Be the Inspector.	Feb 20	Sioux Falls. Grounding & Bonding.
Jan 23	Yankton. Grounding & Bonding.	Feb 27	Brookings. 2020 Code Highlights.
Feb 6	Watertown. You Be the Inspector.	March 20	Mitchell. 2020 Code Highlights.
Feb 13	Aberdeen. 2020 Code Highlights.	March 27	Yankton. You Be the Inspector.

NEW!
CLASS

Live, Online—Multi-State Approval; check our website.

Dec 18	(8:00AM-5:00PM)	2020 NEC® Code Highlights
Jan 15	(8:00AM-5:00PM)	2020 NEC® Code Updates, Parts 1-2
Jan 30	(8:00AM-5:00PM)	2020 NEC® Code Updates, Parts 3-4
Feb 19	(8:00AM-5:00PM)	2020 NEC® Overcurrent Protection, Motor Installations
Feb 20	(8:00AM-5:00PM)	2020 NEC® Grounding & Bonding, Parts 1-4

NEW!
CLASS

2 Continuing Ed Credits

Live, Online—Multi-State Approval; check our website.

Dec 16	(6:30PM-8:30PM)	2020 NEC® Motors & Transformers. Chad Kurdi, Trainer • More Dates Online!
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Self-Paced Online—MN-State Approval

Any Time! 2020 NEC® Grounding & Bonding • Overcurrent Protection • More Topics to Follow!

EXAM PREP COURSES Based on the 2020 NEC®

Dec 12-13	Edina at Federated Insurance. 2020 NEC®. Chad Kurdi, Trainer.
Feb 20-21	Bloomington at Federated Insurance. 2020 NEC®. Chad Kurdi, Trainer.
Feb - Apr	9-week online course Feb 4 through April 15. Live, online training with Jeff Keljik.

PLUS Online Options at www.electricalassociation.com/examprep

Who Will Benefit:

Anyone concerned with electrical safety including safety managers, electrical engineers, plant managers, facility maintenance personnel, electricians, electrical contractors, electrical inspectors, risk managers, and project managers. The safety of your employees and customers is of the utmost importance to your company!

- Save Lives & Increase Employee Loyalty
- 70E testing provides documentation of training
- Licensed - Qualified – Experienced instructor will keep your employees interested and engaged



OPTION 1: LIVE, ONLINE

Now available for 4 Hours of Technical Credit in MN, IA, NE, MT, WY.

January 13, 2021 (8am-Noon)

Price: \$119 members / \$149 nonmembers

Register online: www.electricalassociation.com

OPTION 2: PRIVATE CLASSROOM

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