

The logo features the NECA logo on the left, which includes a stylized wave and three stars above the letters 'NECA'. To the right of this is the text 'North Florida Chapter' in a white serif font, and below that, the word 'CONNECTION' in a large, bold, white sans-serif font. The background of the logo area is a dark blue gradient with a complex network of glowing blue lines and nodes, resembling a circuit board or a data network.

# NECA North Florida Chapter CONNECTION

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## Upcoming Course Offerings

### Technology Trends That Drive Success

By 2020 Internet-connected devices will grow from 400 million today to 50 billion and smart phones will have the capability of storing and accessing as much information as IBM's supercomputers. Technology will be even more critical in gaining new customers and recruiting key employees as everyone (employees, clients and competitors) will have hand-held access to the biggest, smartest, fastest computers in existence today and the workforce you hire has never lived without technology. Successful contractors understand the positive impact that technology has on business processes, the ability to respond to change, cost savings, efficiency and the bottom line. Attendees to include field leaders, project administrators, project engineers, project managers, project executives, group/branch executives, financial managers, owners.

**Wednesday, November 9th, 2022.**  
**9:00 a.m. - 11:00 a.m.**  
***Virtual Class***

### Human Performance - Its Role in Electrical Operations and Safety Excellence

Studies show that the likelihood of a serious event being linked to human performance is 90 - 95% versus equipment failure 5 - 10%. Opportunities exist to significantly raise awareness in employees leading to behavior change. This program is designed to raise awareness to those behaviors that put our employees, operations and the public at risk.

Wednesday, November 16th, 2022.  
8:00 a.m. - 12:00 p.m.  
Will be held at the North Florida NECA office

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## Registration for NECA Austin 2022 is now open!



### Registration Is Now Open!

NECA is excited to announce that registration has opened for the 2022 NECA Convention & Trade Show in Austin, TX. This is the electrical construction industry's premier event. Attendees will gain access to industry-leading education, top-notch speakers, networking, entertainment and North America's largest Electrical Construction trade show.

*NECA Austin 2022 will be held **Oct. 15-18, 2022** at the Austin Convention Center.*

If you are interested in registering and would like the Chapter to assist you in your registration, please reach out to our office and we would be happy to assist you!

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## The Florida State Dinner at The Roosevelt Room Austin!



On Monday, October 17th, We are taking over *The Roosevelt Room*, an award-winning Cocktail Bar and Event Venue located in the heart of downtown Austin's historic Warehouse District. The Roosevelt Room features a seated cocktail experience in their downstairs dining room with table service provided by their knowledgeable bar staff who can guide guests through the list of cocktails selected just for our evening, which consists of innovative house creations, Roosevelt Room classic creations, meticulously-crafted classic cocktails, and a curated selection of spirits, beer, and wine. Guests are encouraged to sit back, enjoy a cocktail, classic Texas cuisine, and live music by the *Prophets and Outlaws!*

For more information on attending the Florida State Dinner, please contact the North Florida NECA office.

## Thank you to our sponsors!

Thank you to World Electric Supply, 3M, Southwire, Milwaukee Tool, and Graybar for sponsoring this dinner so that we are able to have this night of drinks, music, and classic Austin fun!



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## Legislative Updates

### > Sweeping Tax Package

The legislature's robust tax package delivers \$1.1 billion in broad-based tax savings to families across the state over two years, with a focus on long- and short-term sales tax relief. The legislation results in savings for Floridians who are preparing for the upcoming 2022 Hurricane Season and the 2022-2023 school year, raising young children, purchasing ENERGY STAR appliances or skilled worker tools; as well as, individuals and families enjoying outdoor activities and events. With gas prices at an all-time high, a month-long gas tax holiday will provide relief for every Floridian who drives a car. The bill also eliminates property taxes for homeowners who suffered losses in the Champlain Towers condominium collapse in Surfside, Florida, and expands existing property tax relief for deployed military service members, widows, widowers and blind or disabled Floridians. The tax package includes the following:

- **Establishes the 2022 Gas Tax Holiday** - The legislation creates a month-long fuel tax holiday from October 1 – 31, 2022. The holiday will reduce the tax on motor fuel by \$0.25 per gallon.

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## Codes and Standards Report

Temporary Electrical Installations

Here is a review of the requirements for temporary electrical installations and how they differ from the requirements for permanent installations.

Article 590 addresses the practicality and execution issues inherent in temporary installations, making them less time consuming to install and remove.

The requirements of Art. 590 apply to temporary power and lighting installations/removals, including power for construction, remodeling, maintenance, repair, demolition, and decorative lighting.

This Article also applies when temporary installations are necessary during emergencies or for tests and experiments [Sec. 590.3(C)]. But you can't use temporary wiring just anywhere. It's permitted for only:

- Construction, remodeling, maintenance, repair, or demolition of buildings, structures, or equipment.
- Activities like the preceding.
- Emergencies.
- Tests, experiments, and developmental work.

Temporary installations for carnivals, circuses, fairs, and similar events must be installed per Art. 525, not Art. 590.

After the construction is completed, emergency has passed, etc., you no longer require the temporary wiring. The justification for installing it is gone, so you must remove it [Sec. 590.3 (D)].

Temporary electrical power for decorative holiday lighting and similar purposes is permitted for a period of up to 90 days. Once that clock runs out, you must remove the temporary electrical power [Sec. 590.3(B)].



## Not a replacement

Temporary wiring methods are acceptable only if approved by the authority having jurisdiction based on the conditions of use and any special requirements of the temporary installation [Sec. 590.2(B)].

Article 590 does not replace Chapters 1 through 4 of the NEC for temporary installations. If you have a temporary installation, you don't just apply the requirements of Art. 590 and consider the installation Code-compliant. Instead, you apply the relevant requirements of Chapters 1 through 4, and check Art. 590 for modifications of those [Sec. 590.2(A)]

If installing a temporary service, you must do so per Parts I through VIII of Art. 230 as applicable [Sec. 590.4(A)].

If installing temporary feeders, you must provide overcurrent protection per Sec. 240.4 and Sec. 240.5 [590.4(B)]. If installing temporary branch circuits, you must provide overcurrent protection per Sec. 240.4 and Sec. 240.5 [Sec. 590.4(C)].

For feeders and branch circuits, you can use only these wiring methods:

(1) Type NM cable, Type SE cable, and flexible cords. You can use these in a building without height limitations or limitations by building construction type. Nor do you have to conceal them within walls, floors, or ceilings; they will be easier to remove if you don't.

(2) Type SE cable. You can install it underground if you install it in a suitable raceway.

## Receptacles

On a construction site, receptacles are not permitted on a branch circuit that supplies temporary lighting [Sec. 590.4(D)(1)]. This requirement is necessary so illumination is maintained, even when the receptacle's GFCI-protective device opens.

15A and 20A receptacles installed in a wet location must be within an enclosure that is weatherproof when an attachment plug is inserted [Sec. 590.4(D)(2)]. The outlet box hood must be listed for extra-duty use. Non Locking-type receptacles in a wet location must be listed as weather-resistant [Sec. 406.9(B)(1)].

Though the NEC doesn't specify how many receptacles you need in a given area, you should put some thought into having enough that people don't have to play portable cord games just to get their work done. For example, instead of a bank of receptacles in one central location, strategically run branch circuits out to where power is needed or is likely to be needed.



### Disconnecting means

Install suitable disconnecting switches or plug connectors to permit disconnecting all ungrounded conductors of each temporary circuit [Sec. 590.4(E)]. If multiwire branch circuits are installed, they must disconnect all ungrounded conductors simultaneously; you can use identified handle ties for this purpose.

### Lamp protection

Lamps (bulbs) must be protected from accidental contact by a suitable luminaire or lampholder with a guard [Sec. 590.4F)]. This requirement is less of a burden if you use LED luminaires since the lamps themselves are at 5V and don't run hot. Best results in both safety and energy efficiency are achieved by using an integrated LED lighting product rather than a retrofit lamp screwed into a fixture designed for incandescent.



### Splices

A box, conduit body, or other enclosure (with a cover installed) is required for all splices [Sec. 590.4G)].

*Exception No. 1: On construction sites, a box is not required if the circuit conductors being spliced are all from:*

*(1) Nonmetallic multiconductor cord or cable assemblies, if the equipment grounding continuity is*

*maintained with or without the box.*

*(2) Metal-sheathed cable assemblies terminated in listed fittings that mechanically secure the cable sheath to maintain effective electrical continuity.*

*Exception No. 2: On construction sites, a box is not required for GFCI-protected branch circuits that are permanently installed in framed walls and ceilings and are used to supply temporary power or lighting.*

*(1) A box cover is not required for splices installed completely inside of junction boxes with plaster rings.*

*(2) Listed pigtail-type lampholders can be installed in ceiling-mounted junction boxes with plaster rings.*

*(3) Finger-safe devices are permitted for supplying and connecting devices.*

## Physical protection

Cables and flexible cords must be protected from physical damage and from sharp corners and projections when the cables and flexible cords pass through doorways or other pinch points [Sec. 590.4(H)]. Cord protectors and related products are available for this purpose; don't rely totally on that roll of duct tape.

Cable assemblies and flexible cords must be supported at intervals that ensure protection from physical damage [Sec. 590.4(J)]. Support must be in the form of staples, cable ties, straps, or other similar means designed not to damage the cable or flexible cord assembly. Flexible cords (other than extension cords) are not permitted to lie on the floor or the ground when used as branch circuits or feeders.

The support requirement for temporary cables is determined by the authority having jurisdiction based on the job-site conditions. You can't use vegetation to support overhead branch-circuit or feeder conductors [Sec. 590.4(J)]

## GFCI protection

GFCI protection is required for receptacles used for construction, remodeling, maintenance, repair, or demolition of buildings, structures, or equipment [Sec. 590.6(A)].

GFCI protection is required for:

- 15A, 20A, and 30A receptacles that are not part of the permanent wiring of the building. Section 590.6(A) requires 125V and 125/250V, 15A, 20A, and 30A receptacles to have GFCI protection. Section 590.6(B) requires all other receptacles used on temporary installations to be GFCI protected. This simply means all 125V and 125/250V receptacles used for temporary power require GFCI protection.
- 15A, 20A, and 30A receptacles that are being used as temporary power but are part of the permanent wiring of the building. Listed flexible cord sets or devices that incorporate listed GFCI protection can be used in addition to the required GFCI receptacles.
- 125V and 125/250V, 15A, 20A, and 30A receptacles that are part of a portable generator rated not greater than 15kW.

Receptacles other than those covered by Sec. 590.6(A)(1) through (A)(3) that supplies temporary power used by personnel during construction, remodeling, maintenance, repair, or demolition of buildings, structures, equipment, or similar activities.



## Overcurrent protective devices

Where previously used overcurrent protective devices are installed in a temporary installation, they must be examined [Sec. 110.3(A)] to ensure they have been properly installed/maintained and that there is no evidence of impending failure [Sec. 590.8(A)].

The phrase "evidence of impending failure" means there is evidence such as arcing, overheating, loose parts, bound equipment parts, visible damage, or deterioration. The phrase "properly maintained" means

the equipment has been maintained per the manufacturer's recommendations and applicable industry codes and standards.

References for manufacturers' recommendations and applicable industry codes and standards include:

- NEMA AB 4, Guidelines for Inspection and Preventative Maintenance of Molded-Case Circuit Breakers Used in Commercial and Industrial Applications.
- NFPA 70B, Recommended Practice for Electrical Equipment Maintenance.
- NEMA GD, Evaluating Water-Damaged Electrical Equipment.
- IEEE 1458, IEEE Recommended Practice for the Selection, Field Testing, and Life Expectancy of Molded-Case Circuit Breakers for Industrial Applications.

Overcurrent protective devices for 277/480V services must be of the current-limiting type [Sec. 590.8(B)].

### Different, not lower

Remember that mistakes with temporary installations can have permanent consequences. It is a common misconception that temporary wiring represents a lower standard of wiring than permanent wiring. In truth, it merely meets a different standard. The same rules of workmanship, ampacity, and overcurrent protection apply to temporary installations as to others.

*Article by Mike Holt Enterprises in EC&M magazine (online). Sept 14, 2022*

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## JATC Apprenticeship Reports

### Jacksonville JATC

To the members of the North Florida Chapter of N.E.C.A. -

Orientation for the 2022-2023 school year was held at the Doubletree Hotel on September 13th. This was the first time since 2013 that all of our apprentices were together at the same time. We had special speakers, product vendors present and prizes raffled off to the apprentices. Our classes are now in full swing with all 5 years attending throughout the week.

We have had several FDS classes for Journeymen over the summer. *FDS Level III* completed with 7 journeymen receiving completion certificates. An *EVITP* class is currently being offered and will run to November 3rd. If you know of anyone wishing to get EVITP certified, please have them call the Training Alliance or go online to register for this class. We have had 20 journeymen complete their EVITP certification at the time of the writing of this article.

A new *Pre-Apprenticeship Class* started on August 17th. The Trustees decided to take in another 1st Year class in January. If you know of anyone who may be interested in beginning a new career in the electrical trade, please have them contact the school or make their application online at - [etajax.org](http://etajax.org).

As always, I am here to answer any questions you may have. Feel free to contact me if I can help with anything. On behalf of the Trustees of the Apprenticeship Committee, thank you for your continuing support.

Daniel Van Sickle  
Apprenticeship and Training Director

Daniel McEachern  
Assistant Training Director

### Daytona JATC

Hello from Daytona Beach,

This month we started 25 new 1st year apprentices and currently have about 100 apprentices working. We have been working with Volusia County schools and will be putting together an apprenticeship expo with Daytona state college in November for apprentice week.

We have had the city of Holly hill and the city of Daytona Beach issue Proclamations for November naming the week of Nov.14-20th Apprenticeship week.

Robert Cruz MAED

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## ELECTRI Research Report

### ELECTRI Contracting Benchmarks & Analytics

In late 2021, Document Crunch partnered with ELECTRI International (NECA), the John R Gentile Foundation (MCAA), and the New Horizons Foundation (SMACNA). The first objective was to begin assessing their members' contracts. First, through numerous discussions with key stakeholders in the participating organizations, we determined the riskiest contract provisions that impact trade contractors.

Check out the report to find the top ten issues – with a quick overview of each issue itself.

[Get the full report here!](#)

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## Looking Forward

- **November 9th, 2022-** *Technology Trends That Drive Success*(Virtual)
  - **November 16th, 2022-** *Human Performance and Its Role in Operational and Safety Excellence*
  - **December 2nd, 2022-** *Holiday Party at TopGolf!*
  - **December 2nd, 2022-** *Membership Meeting at TopGolf!*
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