

The logo features the NECA acronym with a stylized flag above it, followed by the text "North Florida Chapter" and "CONNECTION" in large, bold, white letters. The background is a dark blue with a glowing circuit board pattern.

# NECA North Florida Chapter CONNECTION

## Board of Directors

**President:** Edward Witt Jr.

**Director:** Stan Brandies

**Vice President:** Byron Overstreet

**Director:** Brent Zimmerman

**Governor:** Henry Brown

**Director:** Scott Sullivan

**Treasurer:** Kevin Flanigan

**Director:** Brad Giles

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## Upcoming Course Offerings

### Upcoming Class Highlight:

#### **Transformational Leadership: Creating High Performance Work Teams**

Companies invest millions of dollars in technology, equipment and technical training for improved performance and productivity, with little to no investment in the human interaction side of leadership.

Well-intentioned managers, supervisors and foremen create barriers to success, never realizing the negative impact they may have on subordinates, bosses or peers. This program is designed to identify and eliminate potential blind spots to those behaviors which could be sabotaging performance and create dysfunctional cultures impacting safety, quality and

productivity.

**[RSVP Here!](#)**

**Monday, May 2nd, 2022.**

**8:00 a.m. - 12:00 p.m.**

## Advanced Estimating of Electrical Construction

Developed to discuss all phases of the estimating process, this course covers all phases of preparing a competitive bid. Key topics include identifying desirable bid opportunities, analyzing the company's capabilities to insure profitable results, the estimator's role at various stages of the project, writing an effective scope letter and identifying often hidden costs in the bid documents

**Monday, June 6th - Tuesday, June 7th.**

**8:00 a.m. - 4:00 p.m.**

**Will be held at the North Florida NECA office**

## Leadership Dynamics

This course is a management platform to give participants the skills they need to develop leadership power, transform resistance into support, master best practices for influencing others and delegate effectively

**Monday, August 22nd, 2022.**

**8:00 a.m. - 4:00 p.m.**

**Will be held at the North Florida NECA office**

**Masks Required per Instructor's Request**

## Change Order Management (Part 1)

Effective change order management can dramatically reduce a subcontractor's risk and increase profitability. This four-hour interactive course explores the change order process from a subcontractor's view point and provides participants with hands on training in recognizing, scoping, pricing, and negotiating change orders. This course culminates in a mock negotiation where participants can immediately practice the skills that they have learned. Attendees to include field leaders, project administrators, project engineers, project managers, project executives, group/branch executives, financial managers, owners.

**Monday, August 29th, 2022.**

**9:00 a.m. - 12:00 p.m.**

**Virtual Class**

## Building The Case to Win- Claims and Change Orders (Part 2)

In this session, the group will discuss contract risk management and preservation of rights in order to increase the chances of financial recovery during project execution. Since the most valued information for contract conflict resolution come from those closest to the work, the basics of preparing that documentation and effectively translating the information will be discussed. The group will gain understanding and review examples of risky contract clauses, the process of claims management, the legalities of change order control, and preparation for lawsuits. Attendees to include field leaders, project administrators, project engineers, project managers, project executives, group/branch executives, financial managers, owners.

**Tuesday, August 30th, 2022.**

**9:00 a.m. - 12:00 p.m.**

**Virtual Class**

## The Art of Clear Communication: Get What You Want, When You Want It

True success in the workplace is the ability to achieve desired results through positive interaction and the willing cooperation of others. Learn how to develop synergy, build strengths, and enhance interpersonal skills by focusing on communication techniques to foster teamwork and get results.

**Monday, September 19th, 2022.**

**8:00 a.m. - 4:00 p.m.**

**Will be held at the North Florida NECA office**

**Masks Required per instructor's request**

## 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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## Byron Overstreet

We are devastated at the tragic loss of our Vice President and long time friend, Byron Overstreet. Byron was a loved and cherished member of North Florida Chapter NECA, serving as Vice President for seven years and an active member of our organization for over 30 years. Byron passed away on Friday, March 18th, 2022, surrounded by his loving family. His service was held on Saturday, March 26th, 2022 at the North Brevard Funeral Home and he was laid to rest at Oaklawn Memorial Gardens in Titusville, FL. Our thoughts and prayers are with his wife Glenda and their daughter Jenna during this tragic time.

Starting as an electrical apprentice in 1991, Byron quickly established a love and passion for the electrical contracting industry, moving up from a Journeyman Electrician in 1996 to Vice President of Woodson and Associates by 2003. In 2008, Byron made his return to Giles Electric Company, where he worked during his apprenticeship program and moved up the ladder just as quickly, starting as a Project Estimator in 2008 and beginning his long term run as Vice President of Giles Electric in 2013, where he remained until his unfortunate passing and his position will continue to be deeply valued by Giles Electric. Byron also spent 22 years on the Daytona Apprenticeship Committee, where he dedicated himself to ensuring the highest quality education for electrical apprentices while working with Daytona State College to create an educational partnership that has proved to be incredibly valuable for our program.



Byron's consistent commitment to the industry led to programs that have added tremendous value to the electrical apprenticeship program and his efforts will continue to add value for generations of electricians to come. Not only did Byron do amazing work for the apprenticeship program, but his work with the Labor Management Committee and Negotiation Committee brought better working conditions to both apprentices and journeymen in our area. His participation in various Peer Groups and National Meetings and events created nation-wide influence that brought better ideas, conditions, and innovation to NECA. Byron's dedication to excellence within the industry will continue to bring influence to the electrical contracting industry and the memory of his love and friendship will continue to influence his friends and colleagues for decades to come.

Memorial contributions may be made in his name to the American Cancer Society. Condolences may be shared at [www.northbrevardfuneralhome.com](http://www.northbrevardfuneralhome.com).

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# ECF 2022 Continuing Education Schedule



## North Florida Chapter NECA is excited to be teaming up with ECF for Member CEU's!

**Registration is now open:** You may choose any location and date you'd like to attend with the exception of the Volusia Chapter, which is open at this time exclusively to the Volusia Chapter members and returning attendees from the Volusia Classes held last renewal cycle. After May 1st registration will be open to everyone based on space available.

Non-Licensed guests will be allowed at classes based on space availability for a cost of \$25 per day to cover the cost of food.

**DATE:** April 22 & 23, 2022

**LOCATION:** Tri-County Apprenticeship Academy  
13830 Jetport Commerce Pkwy, Ste #5. Fort Myers, FL 33913

**CHAPTER:** Edison \*

**REGISTRATION LINK:** <https://www.ecf-fl.org/event-4736665>

**DATE:** June 10 & 11, 2022

**LOCATION:** Care Electric  
5633 Sarah Ave. Sarasota, FL 34233

**CHAPTER:** Manasota

**REGISTRATION LINK:** <https://www.ecf-fl.org/event-4736782>

**DATE:** June 24 & 25, 2022

**LOCATION:** Windmar Home Florida, Inc.  
6753 Kingspointe Pkwy #107. Orlando, FL 32819

**CHAPTER:** Central

**REGISTRATION LINK:** <https://www.ecf-fl.org/event-4736774>

**DATE:** July 15 & 16, 2022

**LOCATION:** Hampton Inn – New Smyrna Beach  
214 Flagler Avenue. New Smyrna Beach, FL 32169

**CHAPTER:** Volusia

(Open to everyone after 5/1/22)

**REGISTRATION LINK:** <https://www.ecf-fl.org/event-4736719>

**DATE:** July 29 & 30, 2022

**LOCATION:** Coresential  
3119 Queen Palm Dr. Tampa FL 33619

**CHAPTER:** Tampa-Pinellas\*

**REGISTRATION LINK:** <https://www.ecf-fl.org/event-4736679>

**Courses Offered:** A detailed catalog of course offerings will be posted shortly on our website at [www.ecf-fl.org](http://www.ecf-fl.org). All 2-day seminars will include a minimum of 13 hours of continuing education and will cover all of the required courses needed for renewal. *Please familiarize yourself with all required hours for your specific license renewal. A list of all licenses and requirements is attached.* Two of the sessions will be offered in-person and online, see below \*\* All of the 2-day seminars will include the following:

- 1-hour of Workplace Safety
- 1-hour of Workers' Compensation

- 1-hour Business Practices
- 1-hour of Laws and Rules
- 1-hour on the 7th Edition (2020) Advanced Florida Building Code (FBC)
- 2 hours of Preventing False Alarms for contractors who engage in alarm system contracting.
- 6 hours of Technical

\* The Edison and Tampa-Pinellas classes will be held in a hybrid format with both in-person and online options. Online students must have a camera and always remain live during the classes. Additionally, code words will be given during the classes that will be required to complete the survey after class to secure CE Credits.

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## Southern Region Convention



The 2022 Southern Region Convention will be taking place June 24th - 27th in the beautiful Stowe, Vermont! The convention will be taking place at *The Lodge at Spruce Peak*. The Lodge at Spruce Peak is a luxury four-season mountain resort located at the base of Mount Mansfield, Vermont's tallest peak. The Lodge at Spruce Peak features a full-service spa, fitness center, heated outdoor pool, many dining and retail options, and 36 holes of beautiful mountain side golfing.

### **The Lodge at Spruce Peak:**

7412 Mountain Rd.  
Stowe, Vermont 05672  
(802) 282-4625

[The Lodge At Spruce Peak Website](#)

If you would like to register for this event, please visit the [NECA Net](#) or contact our chapter and we would be happy to assist you in the registration process. The hotel room block closes on May 20th, 2022, so if you would like to guarantee your room under the discounted NECA rate, your registration and hotel must be booked by **May 20th, 2022**.

**Registration for the Southern Region Convention ends June 10th, 2022.**

### **REGISTRATION FEES:**

Member: \$675.00  
Spouse/Guest: \$350.00  
Children (7-18): \$150.00  
Children (under 7): free

### **GOLF FEES:**

Greens Fees: \$207.00  
Club Rental: \$107.00

## PRELIMINARY PROGRAM/SCHEDULE:

*Friday, June 24, 2022*

1:00 – 5:00 PM- Registration  
6:30 – 7:30 PM- Welcome Reception

*Saturday, June 25, 2022*

7:30 – 8:30 AM Continental Breakfast  
8:30 AM – 12:00 PM General Session

8:30 – 10:00 AM Spouse Hospitality Breakfast  
1:00 PM Golf- Mountain Course

*Sunday, June 26, 2022*

7:30 AM Prayer Service  
3:00 – 5:00 PM Premier Partner presentations  
*also featuring fun activities!*

*Monday, June 27, 2022*

7:30 – 8:30 AM Continental Breakfast  
8:30 – 12:00 PM General Session/Adjourn  
6:00 – 9:30 PM Closing Reception/Dinner Village  
*Join us for a fun evening with live entertainment!*

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## Project Excellence Awards



To showcase the exceptional work performed by our member-contractors throughout the country, the National Electrical Contractors Association created the Project Excellence Awards to recognize companies for their outstanding commitment, professionalism and ingenuity in delivering an electrical project across 13 different market sectors.

***NECA will accept submissions for the 2022 Project Excellence Awards from March 1st to June 30th, 2022.***

Awards will be based on whether the electrical/technology portion of the project is valued under or over \$1 Million for each market sector, except for industrial, low voltage/integrated systems, overhead transmission, residential, substation/interconnection and transportation/infrastructure.

**Applications submitted must be based on projects completed in 2021.**

**[Login and submit your 2022 NECA Project Excellence Awards here.](#)**

**[Click here to view the 2022 NECA Project Excellence Awards Program Rules.](#)**

**[Click here to view the Judging Criteria for the 2022 NECA Project Excellence Awards.](#)**

**[Click here to view the 2021 NECA Project Excellence Awards Winners.](#)**

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## Tool Time Sales Tax Holiday

**From Sept. 3-9th the state will not collect state tax on power tools and several other items used by skilled workers.**

Floridians who need a driver, drill or a couple of the high-discharge batteries that power them would do well to hold off for a few months.

From Sept. 3-9th, the state will not collect sales tax on a bundle of items as part of a new sales tax holiday included in the Legislature's tax-cut package (**HB 7071**).

During the first-ever "Tool Time" sales tax holiday, retailers will not charge sales tax on hand tools costing up to \$50, power tools costing up to \$300, power tool batteries costing up to \$150, tool boxes costing up to \$75, vehicle tool boxes costing up to \$300 as well as a wide range of other gear such as work gloves, work boots and coveralls.

The new sales tax holiday is one of several on the calendar this year, joining staples such as the back-to-school (July 25-Aug 7) and hurricane preparedness (May 28-June 10) sales tax holidays.

The "Tool Time" holiday will save consumers an estimated \$12.4 million according to a

staff analysis of the bill, with \$9.6 million coming through a reduction in state sales tax collections and \$2.8 million coming through a reduction in local collections.

The sales tax holiday was a priority for trade associations that represent construction companies and the skilled tradesmen they employ - the ones who wear out drill bits and work gloves in a matter of days.

"We are grateful for the opportunity to work with Representative Bobby Payne on the Tool Time Tax Credit effort included in Florida's Tax Package. As the largest single provider of Apprenticeship Education in Florida, we know of the need for more skilled workers and of the demands on those enrolled in pre-apprenticeship and apprenticeship education programs," said **Carol Bowman**, ABC of Florida's chief lobbyist.

"For many, they are starting in this type of environment for the first time and this economic relief will help to ensure they are entering the workforce safely and with proper equipment for a successful career. The support of Legislature signifies a strong understanding that pre-apprenticeship and apprenticeship education offerings are critical to the continued development and growth of Florida's skilled workers."

Overall, the tax-cut package will cost the state and save some consumers and property owners more than \$650 million. About \$209 million of those savings will come during sales tax holidays and another \$200 million will remain in driver's pockets through a month-long gas tax cut in October.

*Dr. Jeffrey Sharkey*  
*CEO/President*  
*Capitol Alliance Group, Inc*

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## Codes and Standards Report

### 2023 National Electrical Code Update

The 18 *NEC* Code-Making Panels (CMPs) have completed their work for this code cycle and here is an update on this work:

#### NEC Style Manual Improvements

There was a major rewrite of the *NEC* Style Manual. This document establishes how the *NEC* is put together. It isn't an exciting read, but following it consistently makes the *Code* easier to understand. With so many *Code* authors and 18 panels developing the revisions, consistency is a must.

The *NEC* Style Manual requires every article to have a scope statement. Until now, all articles did, except Article 90. However, Article 90 contained the scope of the entire *Code*.

To address this, CMP 1 developed a scope for Article 90. Section 90.2 is still important to lay out what the rest of the *Code* does and doesn't cover. The new title is "Use and Application." What was previously in 90.1 has been integrated into 90.2. Consistency has been a hallmark of the *NEC*, and it is introduced here with a practical solution.

Speaking of scopes, Article 500's scope is odd because it is for articles 500 through 504 and has been so since the 1959 *NEC*. Article 504 was added to the scope when it was added to the *Code*. Each of those articles also had its own article scope. CMP 14 developed a revision to limit the scope to Article 500. Articles 505 and 506 were also revised so they are no longer dependent on any other articles.

#### Simplifying Requirements

There are several instances of long paragraphs expressing *Code* requirements. In the 2023 *NEC*, many of these longer paragraphs have been changed into list format. I have found all of them to be an improvement because it can be difficult to determine how many of the conditions apply to each technique and what modifies what.

#### Definitions

All definitions have been moved into Article 100. In previous *Code* cycles, definitions existed in a number of places. Article 100 was where the definitions that applied throughout the *Code* were located. Before the 2020 cycle, Article 100 consisted of two parts: Part I, "General," and Part II applied to installations over 1,000V nominal. A new Part III was created for definitions for hazardous (classified) locations in the 2020 *Code*. For 2023, the panels have all worked on moving all definitions to Article 100.

In the revised article 100, there are no parts. Definitions are simply arranged alphabetically. Since some definitions appear in a form such as "service conductors, overhead," there will be a parenthetical form of

the term appears as "(Overhead service conductors)." Although this doesn't add value to the printed book, terms can be more easily searched for electronically.

Placing all the terms in the same article was a big challenge, because some terms required modification if they were to appear in Article 100. When they appeared in individual articles, most of them only applied within that article. During the 2020 cycle, some definitions were identified as applying throughout the *Code*, and most of those applied to wiring methods.

### New Tagging Method

Since the 2017 *Code*, definitions have been tagged to indicate which panel is responsible for the definition. If the definition only applies to one article, the article number will appear after the definition. Some definitions are extracted from other NFPA documents; those definitions will indicate the source document and the definition location. NFPA documents other than the *NEC* and NFPA 70E number their definitions.

Some terms received new definitions, such as "fault-managed power." This definition is key to understanding the proposed new Article 726, "class 4 Power Systems." The term "likely to become energized" appears in 25 places in the 2020 *NEC*, but it required judgment to determine what that meant in a given installation. Oddly, it was on a list of standard terms in the *NEC* Style Manual. That definition is being added to the *NEC* as follows: "Likely to Become Energized. Conductive material that could become energized because of electrical insulation or electrical spacing failure."

### Selection of Proposed Changes

This is a random selection of proposed changes:

In Section 110.3 (B), the informational note points out the QR codes can be used to provide installation and use instructions to help with compliance with 110.3(B).

The term "**neat and workmanlike**" is vague, but inspectors have been able to write violations based on the theory that "I know it when I see it." The proposed language change is to refer to the expected minimum work quality as "professional and skillful."

**Reconditioned equipment** was a hot topic for the 2020 *Code*. A task group reviewed the *Code's* requirements. Section 110.20 indicates that equipment is generally permitted to be reconditioned, unless prohibited elsewhere in the *Code*.

Reconditioning must be performed with identified replacement parts and verified under applicable standards. If listing is required, the equipment must be listed or field labeled as reconditioned. If listing is not required, it must be listed or field labeled as reconditioned or reconditioned in accordance with OEM instructions. If listing, field labeling and OEM guidance are not available, AHJ approval is permitted with documentation of the changes. In addition, there are new marking requirements proposed for 110.21(A) (2) for reconditioned equipment.

In several places throughout the *Code*, it is proposed to permit **copper-clad aluminum conductors** in sizes as small as 14 AWG. Copper-clad aluminum conductors have permitted ampacities that mirror those of the same size aluminum conductors. However, the smallest size of aluminum conductor permitted by the *Code* is 12 AWG. CCA conductors that are 14 AWG would have an ampacity of 10A. Circuits wired with 14 AWG will not be permitted to supply receptacles.

**Wall space** requirements have been clarified to indicate that the wall space behind fixed appliances will not need to be considered as requiring receptacles. This is a practical improvement to not require a receptacle in an inaccessible space.

During the 2020 cycle, a **surge protection** requirement was added for dwelling unit services. Surge protection is now proposed for feeders that supply dwelling units, dormitory units, hotel/motel guest rooms and suites and patient sleeping rooms in nursing homes and limited-care facilities. We have all become dependent on sensitive electronic equipment, so this will provide needed protection.

Section 110.22(A) proposes to improve the **marking** requirements for disconnecting means. They will be required to be marked to indicate their purpose, unless its use is obvious, and to indicate where the upstream power source is. This latter does not apply to one- or two-family dwellings. It is intended to make it easier for service personnel to identify and locate the upstream disconnecting means, which may be needed for maintenance purposes.

**Dedicated equipment space** requirements in Section 110.26(E) may be expanded to include service equipment in one- and two-family dwellings. This would include the emergency disconnect required by 230.85.

There have been a couple of changes to "high impedance grounded neutral systems." First, they are now simply referred to as "**impedance grounded systems**." There was never a distinction added between low- and high-impedance grounded systems. Second, the conductor that connects the impedance to the system ground is now called the impedance grounded conductor.

The GFCI requirements in Section 210.8 will be updated in 2023 as they have for the last several cycles. **GFCI protection** is required to be listed. This section also requires Class A GFCI protection, which are the devices that trip at 4–6 milliamps. The greatest interest will be in 210.8(F). There have been reports of frequent trips for some mini split-type air conditioning units. A TIA on this section was issued in August, with implementation in Jan. 1, 2023, for mini split units.

**Type P cable** was introduced in the 2020 *Code*. In the 2023 *Code*, the cable will also be referred to as "industrial mobile cable, Type IM."

There were several actions to harmonize requirements for similar occupancies, such as for datum planes

distances and equipotential plane bonding. There appear to be a number of good changes. Some don't move the needle technically, but do improve readability.

*Taken from the Electrical Contractor Magazine Website - Article by Mark Early - Published on Jan 14th, 2022.*

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## JATC Apprenticeship Report

### Jacksonville JATC

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

March opened up with ETA staff attending career fairs and visiting area high schools throughout Northeast Florida. Electrical Training Alliance staff averaged 3 recruiting events a week throughout the month of March. These were in person events, as the schools have started lifting the student access restrictions due to Covid.

The Electrical Training Alliance of Jacksonville hosted the newly appointed State Director of Apprenticeship Kathryn Wheeler on March 16th. Director Wheeler had lunch here at our facility and was given a tour of our classrooms and Craft Certification Labs. Director Danny Van Sickle led the tour by explaining how beneficial to the community apprenticeship is. He explained how we at the Electrical Training Alliance are able to serve our area by providing qualified and knowledgeable tradesmen and women that meet industry demands through apprenticeship. He also detailed how apprenticeship provides a tuition free path for those in underserved communities to better their standard of living by earning a trade without incurring student debt.

Craft Certification exams for apprentices are beginning and should be completed by the end of May. The Baker County Adult Pre-Apprenticeship class is going strong. There are currently 14 adults enrolled in this class.

March 3rd completed the second Electrical Vehicle Infrastructure Training class for journeymen. Out of the 10 students that were enrolled, 8 journeymen passed their qualifications exam and are now certified installers. There will be another EVITP class starting June 7th, so if you know of a journeyman or Construction Electrician who may be interested in getting their certification, please have them contact Stephanie Boatright at 904-737-7533 for enrollment information. There is a \$150 deposit to cover the cost of textbooks and course fees.

The Jacksonville General Apprenticeship Association will have graduation ceremonies on Friday, May 20th at the Prime Osborn Convention Center. Social hour begins at 4:30 p.m. and doors will open at 5:30 p.m. Tickets are currently available and are \$50 each. Please contact our office if you would like to purchase them.

As always, if you have any questions or if we can be of service in any way, please do not hesitate to give us a call.

*Daniel Van Sickle  
Apprenticeship and Training Director*

*Daniel McEachern  
Assistant Training Director*

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## Electri Research Report

### Latent Side-Effects of Electrical Safety Interventions Among T&D Line Workers

The construction industry is one of the dynamic risky environments that contains many potential hazards causing injuries to workers. This is especially true in the electrical sector, where T&D line workers perform tasks on high elevations, close to high-voltage energized lines. Despite increased safety interventions to curb the number of injuries occurring in the electrical construction industry, this sector still experiences one of the highest fatality rates.

ELECTRI International awarded an Early Career Award to Sogand Hasanzadeh of Purdue University to study the latent side-effects of electrical safety interventions among T&D line workers.

Get the full report here!

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## Looking Forward

- **May 2nd, 2022-** *Transformational Leadership: Building High Performance Work Teams*
  - **June 6th-7th, 2022-** *Advanced Estimating of Electrical Construction*
  - **August 22nd, 2022-** *Leadership Dynamics*
  - **August 29th & 30th, 2022-** *Change Order Management Parts 1 & 2 (Virtual)*
  - **September 19th, 2022-** *The Art of Clear Communication: Get What You Want When You Want It*
  - **November 9th, 2022-** *Technology Trends That Drive Success(Virtual)*
  - **November 16th, 2022-** *Human Performance and Its Role in Operational and Safety Excellence*
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