

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

# NECA North Florida Chapter CONNECTION

## Board of Directors

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## Upcoming Course Offerings

### Enabling Success- Creating Alignment Between Field and Office

For construction firms to thrive, synergy, teamwork and trust must exist between the office and the field. The proper deployment of defined processes and tools will facilitate this critical alignment. This collaboration must begin before mobilization, and continue through project closeout. During this session, we will discuss the workflow that must exist in order to mitigate risk and maximize productivity. During this session, we will discuss why the processes of preconstruction planning, short interval planning, production tracking, daily project reports, exit strategy, and lessons learned are critical to the organization. We will also discuss what the benefits are for each member of the team, and how these processes can be properly implemented

**Tuesday, February 8th, 2022.**

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

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

### Basic Estimating of Electrical Construction

Small mistakes in an estimate can have a huge impact on your bid's bottom line and this course provides the tools needed to be both comprehensive and competitive. This course will discuss the process for assembling an estimate including: developing material lists, applying labor unit data, material takeoff and application of direct job costs, overhead, and profit.

**Tuesday, February 15th - Thursday, February 17th.**

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

*Will be held at the North Florida NECA office*

## **Coaching for Improved Work Performance**

Learn how to develop an Action Plan for constructive change in any employee. Learn techniques for elevating the trust and confidence of the people you supervise. Use the Performance Discrepancy Analysis Model to achieve peak performance.

**Thursday, March 24th, 2022.**

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

*Will be held at the North Florida NECA office*

**Masks Required per Instructor's Request**

## **Creating A Customer-Focused Organization**

Interaction with customers is critical to your organization's success and this contact occurs with employees at every level. Not all of your employees feel comfortable with or understand how important their role is in building and maintaining customer relationships. By developing specific skills in this area, your staff can more effectively represent your association and help you reach your defined objectives.

Learn what works and what doesn't with customer service to make sure everyone on your staff is contributing to positive experiences for your customers and members. Attendees to include senior project managers, project executives, group/branch executives, corporate executives, owners.

**Monday, April 4th, 2022.**

**9:00 a.m. - 11:00 a.m.**

*Virtual Class*

## **Build the Ultimate Brand: How to Communicate and Sell**

In today's ever-changing business climate, we must develop new ways of standing out from the crowd. Once we know the strengths of our identity, we can set about building a comprehensive way to sell our unique brand to customers. Learn how to use your personal brand to gain commitment, strengthen communication skills and develop solid networking habits.

**Monday, April 11th, 2022.**

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

*Will be held at the North Florida NECA office*

**Masks Required per instructor's request**

## **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.

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

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

*Will be held at the North Florida NECA office*

## **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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## C and C 25 Years With NECA!



Congratulations to C and C Power Line for celebrating their 25th year as a NECA member!

C and C Power Line, Inc. is a full-service nationwide electrical contractor servicing investor-owned utilities, municipal utilities, government agencies and privately owned companies.

We are honored to have C and C as a long standing member with us. Here is to 25 more!

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## Codes and Standards Report

### Considerations for the 2023 National Electrical Code (NEC)

As work winds down on the current NEC code cycle, here is a recap of some of the revisions that are being included in the 2023 edition.

#### NEC Style Manual

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 and readability is a must.

#### 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 that 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.

#### Selection of proposed changes

This is a random selection of proposed changes, so far.

in Section 110.3(B), the informational notes points out that QR codes can be used to provide installation and use instructions to help with compliance with 110.(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 marketing 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 12 AWG. Copper-clad aluminum conductors have permitted ampacities 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 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.

The GFCI requirements in Section 210.9 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 219.8(F). There have been reports of frequent trips for some mini split-type air conditioning units.

*Excerpts taken from an Electrical Contactor magazine article by Mark Early published January 14, 2022*

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## JATC Apprenticeship Report

### Jacksonville JATC

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

The Baker County Adult Pre-Apprenticeship class started on January 10th with 25 pre-apprentices registered. These adult pro-apprentices received their books on the first night. The pre-apprenticeship class that began January 5th here at the ETA started with 27 students who received textbooks and tools courtesy of a Pathways Grant.

The Adult Pre-Apprenticeship class in Baker County is in partnership with the Baker County School System. Both of these classes are scheduled for completion in the summer. Those who complete the Adult Pre-Apprenticeship will qualify for an interview with the Trustees for potential acceptance into our apprenticeship program.

We have several classes beginning this month for *Construction* Electricians and Journeyman.

A Motor Control Class for *Construction Electricians* will be held on February 8th and February 10th. If you know a CE who would like to attend this class, there is still time to sign up. The ETA will be holding a Solar Photovoltaic Certification Class starting February 2nd and will run until march 2nd for *Journeyman*.

An Electrical Vehicle Infrastructure Training class will begin on February 8th and will continue until March 3rd. This class is open to any *Journeyman* and *Construction Electricians* who may be interested. Cost will be \$150 due upon registration; this will cover the cost of the textbooks and material for this course.

If you know anyone who may be interested in any of these classes, please have them give the ETA a call at 904-737-7533. They can also visit our website at - [etajax.org](http://etajax.org) for more information.

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*

## Daytona Beach JATC

Hello from Daytona Beach,

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## Electri Research Report

### Digital Transformation at the Supervision Level for Electrical Contractors

Digital technologies represent a powerful construction industry opportunity for process and performance improvements. However, successful selection and deployment of software depends upon several key factors, some of which may not be immediately obvious to practitioners of construction management. For example, timekeeping is a common area of construction workflow automation. In many cases, it is still managed using paper timecards. Timekeeping has been shown to deliver significant value and efficiency gains to organizations that adopt a digital solution.

Timekeeping is an important process, with limited capacity for latency in data processing and significant downstream impacts in the event of errors or omissions. While there are numerous solutions that automate this process, the process itself must be carefully assessed to assure that the technology selection supports current and future workflow requirements. The technology deployment process can be as important as the selection process in achieving long-term success.

Automation of construction workflows requires internal change management across the construction system. Process changes must be managed synchronously with upstream and downstream impacts clearly understood by all parties. Managing change in these functional systems is uncommon in construction companies, where software solutions may have been in place for extended periods of time, and high levels of familiarity and comfort with extant processes have developed.

A Key criterion for successful technology selection and deployment - as identified during this study - is the creation of a formal approach to innovation deployment and the management of change associated with technology. This process must be undertaken prior to, and during, the technology selection to ensure that both the form and function of the technology and the anticipated changes are mutually supportive. This process of validation and ongoing self-checking is outlined in this study and serves as an outline for other firms seeking to formalize their internal processes to change management associated with technology deployment.

The challenges of digitizing timekeeping should not be underestimated. Successful implementation requires significant organizational commitment. This study includes outcomes from a contractor who successfully deployed a digital timekeeping solution and achieved significant process improvements and time savings.

[Get the full report here!](#)

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## Looking Forward

- **February 8th, 2022-** *Enabling Success: Creating Alignment Between Field and Office*
- **February 15th - 17th, 2022-** *Basic Estimating of Electrical Construction (Virtual)*
- **March 22nd, 2022-** *Membership Meeting*

- **March 24th, 2022-** *Coaching for Improved Work Performance*
  - **April 4th, 2022-** *Creating a Customer Focused Organization (Virtual)*
  - **April 11th, 2022-** *Build the Ultimate Brand: How to Communicate and Sell*
  - **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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