

# EDUCATION COURSE CATALOG

---



## 2025



SCAN TO VISIT OUR WEBSITE



[necasandiego.org/education](https://necasandiego.org/education)





## **Additional Resources**

**NECA San Diego Education**

**NECA San Diego On-Demand Education Library**

**Electrical Training Institute San Diego - Continuing Education**

**NECA National Education**

**ETA Catalog**

**For more information on courses and upcoming events, please visit the Chapter's website at [necasandiego.org/education](https://necasandiego.org/education).**

**Please note that course topics, dates, and times are subject to change.**

**9350 Waxie Way, Suite 540  
San Diego, CA 92123**

**P: 858-571-6322  
[necasandiego.org/education](https://necasandiego.org/education)**



# 2025 Course Schedule

## **Advanced Estimating**

*August 11 & 12, 2025 from 7:30am - 3:30pm*

Building upon the principles taught in NECA's Basic Estimating course, this course focuses on the strategy and business decisions made during the estimating and bidding processes. The course will assist estimators and managers in thinking strategically about how they find, evaluate, and bid on electrical construction projects.

Following this course, participants will be able to:

- Explain the estimator's role and responsibilities throughout the bidding process
- Define estimating terminology
- Evaluate bidding opportunities for the most desirable projects
- Analyze factors that have effects on cost and labor productivity
- Evaluate the potential risk factors of a project
- Discuss the risks and responsibilities identified in the project specifications, labor agreements, scope letters, and standard contracts
- Describe the difference between overhead and profit and how they are applied to estimates.

**Continuing Education Hours:** 16 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Matthew Firestone; Firestone Consulting Group

## **Change Orders & Claims**

*August 20, 2025 from 8:00am - 12:00pm*

This session leads participants through conventional change order and claims processes. Students will be encouraged to think through ways to manage their own change order systems better while considering common sense dispute resolution strategies. The workshop will focus on three important principles:

- Identifying, processing, and getting paid for change orders
- Avoiding disputes before they start
- Resolving disputes before they escalate

**Continuing Education Hours:** 4 Hours

**Format:** Virtual

**Instructor:** Paul Stout; Power Summit



# 2025 Course Schedule

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

*August 26, 2025 from 8:00am - 11:00am*

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.

Learning Objectives:

- Describe the information needed to effectively navigate preconstruction planning
- Learn the critical communication required in short-interval planning
- Discuss the importance of accurate production tracking
- Identify the needed data transfer of a daily project report
- Outline the data collection required of the project team during closeout and lessons learned

**Continuing Education Hours:** 3 Hours

**Format:** Virtual

**Instructor:** Stephane McShane; Maxim Consulting Group

## **NFPA 70E Essentials - Electrical Safety in the Workplace**

*September 3 & 4, 2025 from 8:00am - 12:00pm*

This course covers electrical safety in the workplace as outlined in the 2024 NFPA 70E Standard. It emphasizes the shared responsibility of employers and employees for compliance, focusing on recent revisions that prioritize hazard elimination. Topics include the hierarchy of risk controls, risk assessments, human performance factors, and determining when energized work is justified. The course also covers lockout/tagout procedures, Arc Flash PPE selection, and required training and documentation. Attendees will gain essential knowledge and confidence in applying NFPA 70E standards to ensure workplace safety.

**Continuing Education Hours:** 8 Hours

**Format:** Virtual

**Instructor:** Michael Johnston; Roadrunner Technical Services LLC





# 2025 Course Schedule

## **An Advanced Primer to Power Systems Study**

*September 18, 2025 from 12:00pm - 3:00pm*

This class presents a general overview of the major components of a Power System Study:

- Short Circuit Analysis
- Selective Coordination
- Arc Flash Analysis

We will explore how they each contribute to a reliable electrical distribution system, the importance of each, and the safety aspects of each, and we will also take a deeper look into the Selective Coordination of OCPDs and how that relates to turning those circuit breaker dials in the field!

Following this course, participants will learn:

- Your part in the engineer performing a study
- How equipment selection takes place
- What to look for in a finished study
- How to read a TCC
- Implementing breaker settings
- Arc Flash Labels and PPE

**Continuing Education Hours:** 3 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Michael Rizza; Rizza Engineering

## **Construction Correspondence and Effective Business Writing**

*September 25, 2025 from 8:00am - 12:00pm*

This workshop covers essential construction correspondence, from grammar basics to industry-specific requirements. Through fast-paced exercises, participants will improve writing and comprehension while learning the purpose and structure of key documents like Notices of Delay, RFIs, Substantial Completion, and more. Topics include meeting agendas, responses, and work directives, with a focus on proper style, format, and documentation practices throughout.

**Continuing Education Hours:** 4 Hours

**Format:** Virtual

**Instructor:** Paul Stout; Power Summit



# 2025 Course Schedule

## **NEC Basics**

*October 1, 2025 from 7:30am - 3:30pm*

This NEC® training course shows and demonstrates how to navigate, use, and understand the NEC as it applies to the electrical installations and systems. This course is intended to be frequently used by electricians, inspectors and other electrical professionals for continuing education and licensing renewal purposes. The course highlights some significant changes to the 2023 NEC, including installation rules that directly improve workspace safety, electrical generation and distribution, photovoltaic stations, and much more. During this course, the instructor will address the many important concepts related to proper application of the Code, training in proper application of the Code to those specific areas while answering questions related to specific work situations.

**Continuing Education Hours:** 8 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Michael Johnston; Roadrunner Technical Services LLC

## **Introduction to AI (Part 1)**

*October 9, 2025 from 9:00am - 3:00pm*

Unlock the Power of AI to Transform Your Electrical Contracting Business

This dynamic 3 day workshop is tailored specifically for electrical contractors, project managers, estimators, dispatchers, and office professionals seeking to stay ahead of the curve with artificial intelligence. "Introduction to AI" provides a hands-on, practical exploration of how today's cutting-edge AI tools—like ChatGPT, Google's Notebook LM, Gamma, and more—can streamline operations, increase productivity, and enhance everyday workflows in the electrical industry.

Through a mix of lectures, live demonstrations, and interactive exercises, participants will:

- Learn how AI is revolutionizing the electrical contracting industry.
- Build a personalized AI assistant using ChatGPT to manage tasks, emails, and documentation.
- Transform handwritten notes into dynamic, digital action plans.
- Design AI-generated presentations and images to elevate communication and branding.
- Master the ChatGPT Projects interface for organized, collaborative workspaces.
- Explore safe, ethical, and effective AI implementation practices.
- Build and customize GPTs tailored to specific roles and departments.

Capstone exercises and deep research projects give attendees the opportunity to apply their new skills in real-world scenarios, helping to turn AI potential into real business value.

Whether you're a seasoned pro or new to AI, this immersive training equips you with the knowledge and tools to confidently integrate artificial intelligence into your daily operations.

**Continuing Education Hours:** 6 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Chris Carr; Dynaimix



# 2025 Course Schedule

## **Introduction to AI (Part 2)**

*October 16, 2025 from 9:00am - 12:00pm*

This class is only for those who registered for Introduction to AI as this class was split into 3 days.

**Continuing Education Hours:** 3 Hours

**Format:** Virtual

**Instructor:** Chris Carr; Dynaimix

## **Introduction to AI (Part 3)**

*October 20, 2025 from 9:00am - 12:00pm*

This class is only for those who registered for Introduction to AI as this class was split into 3 days.

**Continuing Education Hours:** 3 Hours

**Format:** Virtual

**Instructor:** Chris Carr; Dynaimix



# 2025 Course Schedule

## Managerial Accounting for Electrical Contractors

*October 24, 2025 from 9:00am - 3:00pm*

Advanced Accounting & Strategies for Construction Managers is focused on establishing familiarity and understanding of advanced managerial accounting terms. The primary audience for this course is the early to mid-career or advancing construction manager, the small business owner, and it serves as a great review for some of the veterans and early career finance managers. It begins with a review of the unique structure of a construction industry financial statement and the 'why'. The training quickly leads into analysis of financial statements, e.g. break-even volume, financial ratios, key performance indicators, etc. This is critical to CM's and CFM's because we are continually being monitored for our financial health (character, capacity, capital). The course introduces the concepts of equity vs. debt financing and how to determine which to use. We also consider how to leverage trade discounts to accelerate early payment terms and the costs/benefits of this strategy. Most importantly, this course will help CM's understand how profits are determined, and the many pitfalls in construction management that erode profits.

### **Intended Audience:**

Mid-career and rising construction managers, small business owners, early career financial managers (who may benefit from context). I have even had seasoned executives, CPA's and Surety Brokers attend to refresh their knowledge.

**Continuing Education Hours:** 6 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Dr. John Killingsworth; Colorado State University

## 2023 NEC Changes that Impact Electrical Contractors

*October 30, 2025 from 7:30am - 3:30pm*

The National Electrical Code is the most widely recognized electrical code in the world. Every three years it is updated to reflect the newest installation practices used by the electrical industry.

This course provides an authoritative, thorough review of the most significant changes in the 2023 NEC, including new articles and revisions that contractors and installers alike must understand and apply in their daily operations. Electrical installations, both in new construction and renovations are subject to compliance with NEC requirements. As jurisdictions adopt and enforce each new edition of the NEC, it is very important that electrical contractors, electrical workers, and electrical inspectors are in tune with the latest minimum requirements. This high-energy, interactive program provides electrical contractors and inspectors with information that helps them with continued success in installation and compliance.

**Continuing Education Hours:** 8 Hours

**Format:** In-Person at ETI (4675 Viewridge Ave. San Diego, CA 92123)

**Instructor:** Michael Johnston; Roadrunner Technical Services LLC



# 2025 Course Schedule

## **New Tax Bill Overview & What You Should Know**

*November 13, 2025 from 1:30pm - 3:30pm*

The "One Big Beautiful Bill" represents the most significant tax reform since 2017, delivering comprehensive changes including tax-free tips and overtime pay, enhanced deductions, permanent rate extensions, and new savings opportunities. This legislation impacts virtually every taxpayer category, from service workers to high-net-worth individuals, requiring immediate strategic planning and implementation.

### **Learning Objectives**

- Foundation - Understanding what changed and when
- Personal Analysis - Determining individual impact
- Strategic Planning - Developing optimization approaches
- New Opportunities - Leveraging new savings vehicles
- Implementation - Taking immediate action

**Format:** Virtual

**Instructor:** Hasani James; Halbert & James, Inc.