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NECA Codes and Standards

- Part of the Government Affairs Team Marco Giamberardino
- Manage and support NECA's Codes and Standards Committee.
- · Works with various organizations supporting NECA's mission and membership.
- Develop ANSI-Accredited Installation Standards (NEIS™).
- · Develop industry resources.
- Provide industry training related to Codes and Standards.











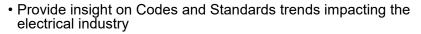






Outline/Agenda

• Review recent changes in Codes and Standards related to technology in the electrical industry.



Topics:

- 1. Prefabrication
- 2. Integrated Systems
- 3. Elec. Vehicle Supply Equip. (EVSE)
- 4. Service and Maintenance
- 5. Energy Management Systems (EMS)





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Prefab in Electrical Construction

What gaps currently exist in the Codes and Standards that regulate the electrical industry?





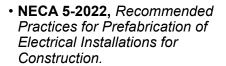




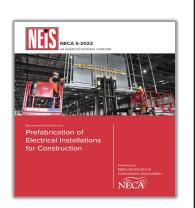
NECA PHILADELPHIA SEPT 29-OCT 2, 2023 NECA CONVENTION EQUICATION

Prefab in Electrical Construction

Introducing NECA 5:



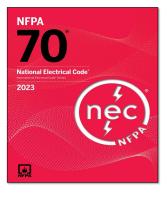
 First ANSI Approved Standard for Electrical Prefabrication





Prefab in Electrical Construction

Prefab related gaps in the NEC®





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Prefab in Electrical Construction

NECA Public Inputs - 2026 NEC®

- Revise 90.4(A) Application To include prefabrication to the list of intended applications of the rules in the NEC[®] and add info note referencing NECA 5.
- Revise 90.7 Examination of Equipment for Safety Include prefabrication language on how to handle the examination/inspection of prefabricated equipment and components once onsite, and add two informational notes:
 - 1. Referencing new proposed definition for prefabrication
 - 2. Referencing NECA 5.
- NEW Article 100 Definition Prefabrication A manufacturing or construction process that generally takes place, either onsite or remote, at a specialized facility, where materials are assembled to form a component part or final installation onsite. Prefabrication often involves the work of a single craft but could involve multiple trades.



Prefab in Electrical Construction

- Prefab related gaps in NFPA 78, Guide on Electrical Inspections
- Challenges and experiences with prefab and inspections.









Integrated Systems - Regulation

- Challenges With Integrated Systems and Regulation.
- NASCLA Power-Limited Contractor Licensing

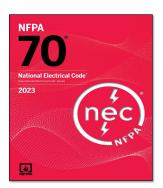




Integrated Systems and The NEC®

How has the *NEC*® evolved over the last decade regarding integrated systems:

- PoE
- Class 4-Digital Electricity





Integrated Systems – Qualified Persons

- NECA Submitted thirteen (13) Public Inputs related to Qualified Persons for the 2026 NEC®
- Eight (8) of these pertained to Power-Limited/Low-Voltage Systems.
- Revised Section 90.2(A) to include the wording "Qualified persons shall be trained in the arrangement and application of this Code as provided in Section 90.3"



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Integrated Systems – Qualified Persons

- NECA PIs:
 - o 393 Low-Voltage Suspended
 - 722 Cable for Power-Limited and Fault-Managed Power Circuits
 - o 724 Class 1 Power-Limited Circuits
 - o 725 Class 2 & 3 Power-Limited Circuits
 - o 726 Class 4 Fault-Managed Power Systems
 - o 760 Fire Alarm Systems
 - o 770 Fiber Optic Cabling
 - o 800 Communications Systems









Integrated Systems - Cybersecurity

- NEW #8 to Section 110.3(A) on Cybersecurity.
- Requires AHJs to consider the Cybersecurity when examining and judging the acceptability of life-safety equipment



Integrated Systems - Cybersecurity

- Contractor challenges and solutions with new 110.3 (A)(8) cybersecurity requirement.
- AHJ What challenges and solutions with new 110.3(A)(8) cybersecurity requirement.



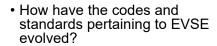
Integrated Systems - Cybersecurity

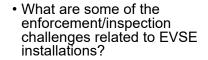
- NECA submitted a PI to revise newly added 110.3(A)(8).
- Adding language to include to provide documentation proving compliance.





Electric Vehicle Supply Equipment









Electric Vehicle Supply Equipment

- NECA submitted a couple PIs pertaining to EVSE:
 - NEW 625.9(A) & (B) Requiring Qualified Persons to install and maintain EVSE
 - Three (3) NEW Informational Notes:
 - Referencing the definition of Qualified Person in Article 100.
 - Referencing NECA 413, Standard for Installing and Maintaining Electric Vehicle Supply Equipment (EVSE).
 - Referencing the EVITP as one example of training program to ensure qualified persons perform EVSE work.



Electric Vehicle Supply Equipment

- NECA Resources:
 - NECA 413, Standard for Installing and Maintaining Electric Vehicle Supply Equipment (EVSE).
 - Electric Vehicle Charging Essentials and other training available thru NECA Education.

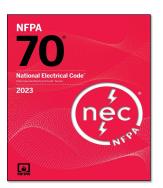






Service, Maintenance and The NEC®

- NEW Section 110.17 establishes Service and Maintenance requirements in the NEC®
- What are the challenges for AHJs?

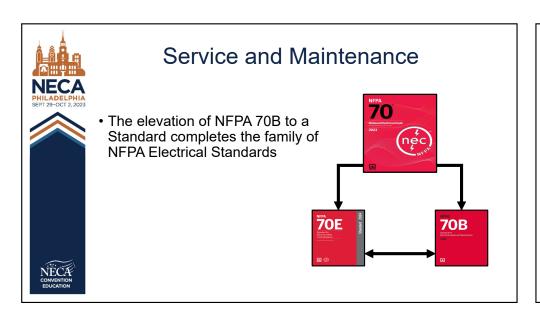


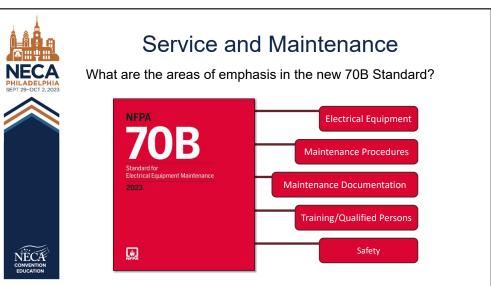


Service and Maintenance

- What changes occurred to NFPA 70B during the last revision?
- What is the difference between:
 - A Recommended Practice
 - · A Standard
 - A Code



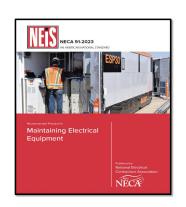






Service and Maintenance

 NECA Developed NECA 91, Recommended Practice for Maintaining Electrical Equipment to compliment the NFPA Electrical Standard Trilogy.





Service and Maintenance

- What business opportunities are available in service and maintenance for contractors?
- Why a qualified trained field staff important in service and maintenance?
 - Code Compliance
 - Manufacturers/Warranty
 - Insurance



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