Welcome Iowa Electricians!

What Does Iowa Require?

18-Hours of Continuing Education Required

- The lowa electrician must complete no less than 18 Continuing Education Units (CEUs) in each three-year license cycle.
- No less than 6 of those 18 CEUs must focus on the most recent lowa electrical code.
- JADE Learning's two-hour VILT sessions satisfy ALL of lowa's requirements for electrical continuing education.
- 9 VILT sessions provides you all 18 hours.



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2023 NEC Changes

Important Changes from the 2023 NEC

6:00 PM Eastern Time

5 PM in Iowa

5:45 PM – 6:00 PM Eastern	Registration / Check In
6:00 PM – 7:00 PM Eastern	NEC Chapter 7 with poll questions
7:00 PM – 7:10 PM Eastern	Break
7:10 PM – 8:00 PM Eastern	NEC Chapter 7 continued with poll
	questions
8:00 PM Eastern	Questions for the instructor?



700.11 Wiring, Class-2 Powered Emergency Lighting Systems • Section 700.11 is an all-new section for the 2023 NEC.

- This section contains 4 subsections that address different aspects of class-2 emergency lighting control device installations:
 - (A) General
 - (B) Identification
 - (C) Separation of Circuits
 - (D) Protection
- The most important things to remember about this section are: *Identify, Separate, Protect*



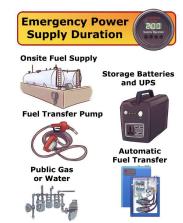
2023 NEC Changes

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700.12(C) Supply Duration





- Section 700.12(C) was renamed to Supply Duration from Storage Battery.
- This section has been expanded to include information on the following:
 - (1) On-Site Fuel Supply
 - (2) Fuel Transfer Pumps
 - (3) Public Gas System, Municipal Water System
 - (4) Storage Batteries and UPS
 - (5) Automatic Fuel Transfer

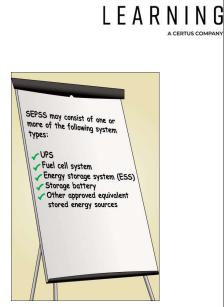
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700.12(E) Stored-Energy Power Supply Systems (SEPSS)

- Section 700.12(E) was renamed in the 2023
 NEC to Stored-Energy Power Supply Systems (SEPSS). In the 2020 NEC it was previously named Uninterruptable Power Supplies
- This section also expanded to include more information. The titles of the subsections are:
 - Types
 - Fire Protection, Suppression, Ventilation, and Separation



2023 NEC Changes

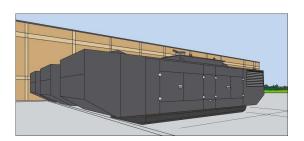
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701.1 Scope

- Section 701.1 Scope contains the same information as in the 2020 NEC, however, the 2023 NEC expands to add 2 additional informational notes.
 - Informational Note 4 addresses what types of systems legally required standby systems are typically installed to serve
 - Informational Note 5 addresses when legally required standby systems are considered level one or level two systems when applying NFPA 110-2019 for more information



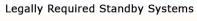


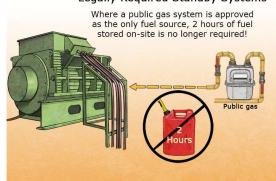
2023 NEC Changes

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701.12(C)(3) Public Gas System, Municipal Water Supply



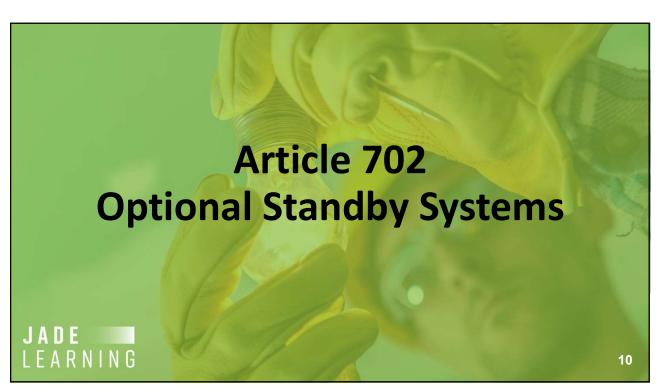




- Section 701.12(C)(3) has been revised in the 2023 NEC.
 - First, notice the words "Prime movers" in the 2020 NEC have been replaced with "sources" in the 2023 NEC for clarity.
 - Additionally, the following requirement form the 2020 NEC has been removed:
 - Means shall be provided for automatically transferring one fuel supply to another where dual fuel supplies are used.
 - Lastly, the following sentence was added to the Exception:
 - Where a public gas system is approved, the requirements of 701.12(C)(1) shall not apply

2023 NEC Changes

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702.7(A) Standby

- In the 2023 NEC, section 702.7(A) was updated to provide more specific requirements for standby equipment signage
 - First, the requirement was updated that the sign shall be placed at equipment, instead of at service-entrance equipment as in the 2020 NEC.
 - Previously in the 2020 NEC, the requirements were separated into one- and two- family dwellings and commercial and industrial installations.
 - The 2023 NEC updates commercial and industrial installations to installations other than one- and two- family dwellings to be more inclusive.
 - Lastly, the requirements for one- and two-family dwellings remain the same, but the section referenced has been updated to 445.19(C)

2023 NEC Changes



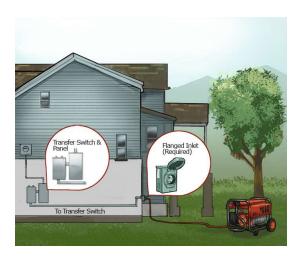
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702.12(B) Portable Generators 15kw or Less



- Section 702.12(B) in the 2023
 NEC adds to the requirement
 that was previously in the 2020
- Now, it specifies that the flanged inlet or other cord-andplug-type connection shall be located outside the building or structure.

2023 NEC Changes

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705.10 Identification of Power Sources





- The primary change in the 2023 NEC for section 705.10 is that it now includes *labels*, instead of just permanent plaques and directories
- The information in the 2023 NEC remains primarily the same as the 2020 NEC, but is reorganized into requirements (1), (2), and (3).
- Requirement (2) is new to add the requirement to include emergency phone numbers for off-site emergency telephone numbers

2023 NEC Changes

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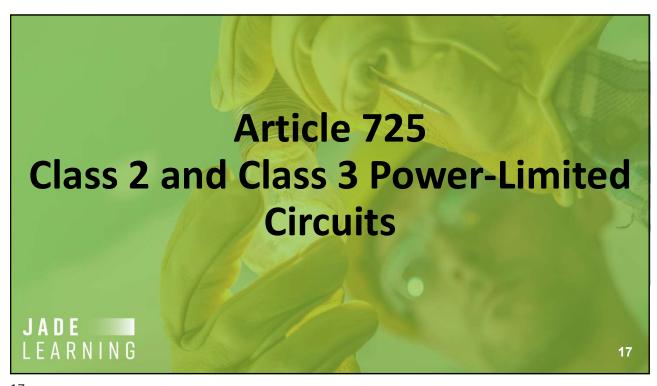
Article 724 Class 1 Power-Limited Circuits and LEARNING Class 1 Power-Limited Remote Control and Signaling Circuits

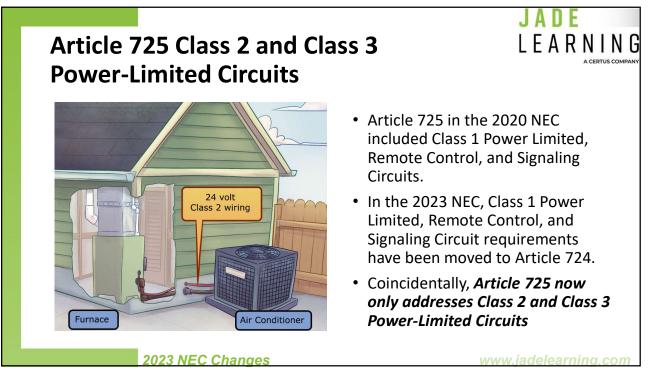
- Article 724 is an all-new article for the 2023 NEC.
- Previously, in the 2020 NEC, Article 725 covered all Class 1, Class 2, and Class 3 Remote Control, Signaling, and Power Limited Circuits
- Now, in the 2023 NEC, Class 1 is split into a separate article from Class 2 and 3, Article 724.

Class 1 non-power limited circuits	Class 1 power limited circuits, RC, and Signaling	Classes 2 & 3 power limited circuits
Chaps 1-4 300.2-300.25	Article 724	Article 725
Fuse Class 'CC' 1	Class 1 circuits shall be su from a source with a rated of not more than 30 volts 1000 volt-amperes.	output
		ass 1 Control Transformer: put 11-14V, Output 230V, 250VA Class 1 Power limited Remote Control and Signaling circuits

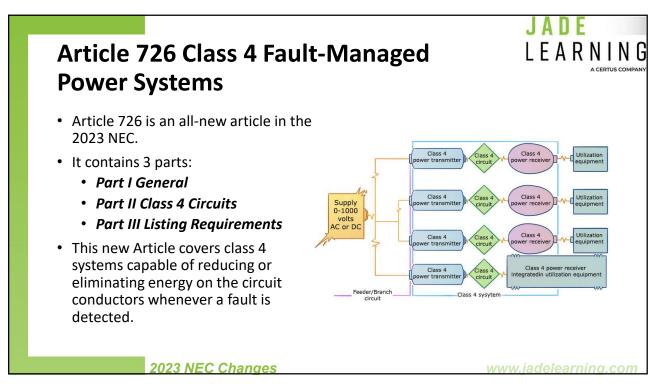
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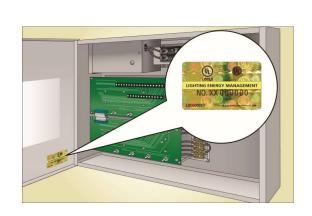






750.6 Listing

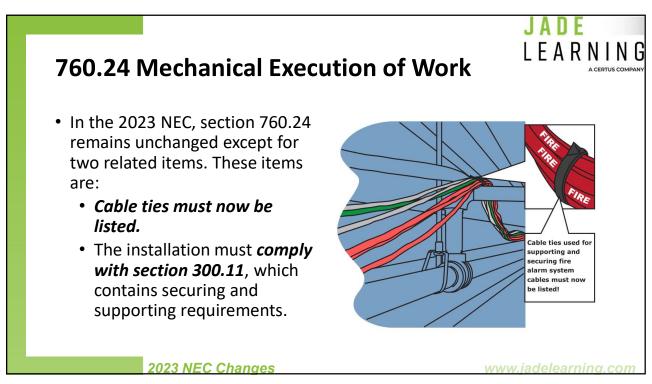
- In the 2023 NEC, section 750.6 is an all-new section.
- This section gives the manufacturer and installers options as to how to comply with new listing requirements for energy management systems.



2023 NEC Changes

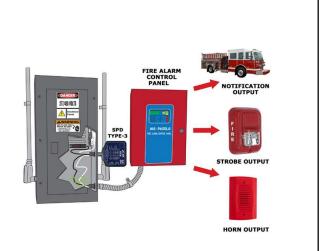
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760.33 Supply-Side Overvoltage Protection

- Section 760.33 is an all-new section in the 2023 NEC.
- It now requires a listed surge protective-device (SPD) installed on the supply side of a fire alarm control panel, in accordance with Part II of Article 242.



2023 NEC Changes

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THANK YOU FOR ATTENDING!

Questions?

For additional instructor support, please contact instructor@jadelearning.com

For questions about your continuing education, please contact registrar@jadelearning.com

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