



2026 NEC Analysis of Changes - Part 4

Course Description, Performance Objectives and Timed Agenda of the Course Outline (4 Continuing Education Hours)

Course Description

This online course analyzes the major changes to the National Electrical Code (NEC®) for the 2026 cycle. Members of the eighteen NEC® code-making panels contributed to the development of the authoritative text used in this online course.

The course covers more than 110 of the most significant code changes from Article 645 through Chapter 9. Specifically, the course examines specific conditions and systems, communications systems, tables and informative annexes.

Performance Objectives

Upon successful completion of this course, the student will be able to:

- Describe code changes to limited energy cables
- Describe code changes to solar photovoltaic (PV) systems
- Describe code changes to communication systems outside and entering buildings
- Describe optional standby systems code changes
- Discuss class 1, 2, and 3 power-limited circuits code changes
- Discuss code changes related to swimming pools, fountains and similar installations
- Discuss code changes related to legally required standby systems
- Discuss code changes related to stand-alone systems
- Explain code changes to limited-energy overcurrent protection, and grounding and bonding
- Explain emergency systems code changes
- Explain information technology equipment codes changes
- Explain limited-energy system power sources code changes
- Identify code changes related to fire pumps
- Identify code changes to class 4 fault-managed power systems
- Identify code changes to energy storage systems and critical operations power systems (COPS)
- Summarize code change to natural and artificially made bodies of water
- Summarize code changes related to Chapter 9 tables and informative annexes
- Summarize code changes to general requirements for limited-energy system wiring methods and materials
- Summarize code changes to interconnected electric power production services
- Understand code changes related to fire alarm systems

- Understand code changes to limited energy systems raceways, cable routing assemblies and cable trays
- Understand fuel cell systems code changes

Timed Agenda of the Course Outline

(4 Continuing Education Hours)

Module 1

(0:00 - 4:04)

Introduction

(4 minutes)

- Introduction (0:05) (14 secs)
- Navigating Course Content (0:19) (1 min 31 secs)
- Course Completion and Testing (1:50) (53 secs)
- IAEI Legal Requirements (2:43) (27 secs)
- Copyright (3:10) (22 secs)
- Course Description (3:32) (32 secs)

Module 2

(4:04 - 25:53)

Lesson 1

(22 minutes)

- Lesson 1 Objectives (4:04) (21 secs)
- Article 645 (4:25) (27 secs)
- 645.27 Selective Coordination (4:52) (2 mins 25 secs)
- Article 680 (7:17) (39 secs)
- 100 Definitions - Pool (7:56) (3 mins 26 secs)
- 680.5(B) Ground-Fault Circuit-Interrupter (GFCI) and Special Purpose Ground-Fault Circuit-Interrupter (SPGFCI) Protection / 150 Volts or Less to Ground (11:22) (3 mins 23 secs)
- 680.22(B)(1) Luminaires, Lighting Outlets, Festoon Lighting, and Ceiling-Suspended (Paddle) Fans / Outdoor Clearances (14:45) (2 mins 40 secs)
- 680.26(B)(2) Equipotential Bonding / Bonded Parts / Perimeter Surfaces (17:25) (2 mins 55 secs)
- Article 682 (20:20) (32 secs)
- 682.33 Equipotential Planes and Bonding of Equipotential Planes (20:52) (2 mins 6 secs)
- 682.33(A) Equipotential Plane Construction and Bonding (22:58) (2 mins 47 secs)
- Lesson Test (25:45) (0 secs)

Module 3

(25:53 - 50:49)

Lesson 2

(25 minutes)

- Lesson 2 Objectives (25:53) (19 secs)
- Article 690 (26:12) (38 secs)
- 690.7(A) Maximum dc Voltage / PV Source Circuits (26:50) (2 mins 16 secs)
- 690.8(A)(1) Circuit Sizing and Current / PV System Circuits (29:06) (2 mins 22 secs)
- 690.12(C) Rapid Shutdown of PV Systems on Buildings / Initiation Devices (31:28) (3 mins 48 secs)
- 690.13 PV System Disconnecting Means (35:16) (2 mins 17 secs)
- 690.33(C) Mating Connectors / Types (37:33) (1 min 57 secs)

- 690.41(B) PV System DC Circuit Grounding and Protection / Direct-Current (dc) Ground-Fault Detector-Interrupter (GFDI) Protection (39:30) (3 mins 35 secs)
- 690.47(B) Grounding Electrode System / Grounding Electrodes and Grounding Electrode Conductors (43:05) (38 secs)
- Article 692 (43:43) (23 secs)
- 692.7 Maximum Voltage (44:06) (2 mins 58 secs)
- Article 695 (47:04) (25 secs)
- 695.7(A)(2) Power Wiring / Feeder Supply Conductors (47:29) (3 mins 17 secs)
- Lesson Test (50:46) (0 secs)

Module 4

(50:49 - 75:55)

Lesson 3

(25 minutes)

- Lesson 3 Objectives (50:49) (16 secs)
- Article 700 (51:05) (29 secs)
- 700.4(D) Commissioning and Servicing / Record Keeping (51:34) (2 mins 16 secs)
- 700.4(F) Commissioning and Servicing / Temporary Source of Power (Single Alternate Source Systems) (53:50) (2 mins 18 secs)
- 700.6(C) Transfer Equipment / Bypass and Isolation of Transfer Equipment (56:08) (2 mins 29 secs)
- 700.12(F) General Requirements / Microgrid Systems (58:37) (2 mins 3 secs)
- 700.24 Luminaires with Control Inputs That Provide Emergency Illumination (60:40) (2 mins 6 secs)
- 700.28 Class 4 Powered Emergency Lighting Systems (62:46) (2 mins 32 secs)
- 700.32(B) Selective Coordination / Replacements (65:18) (1 min 40 secs)
- 700.32(C) Selective Coordination / Modifications (66:58) (2 mins 5 secs)
- Article 701 (69:03) (36 secs)
- 701.9 Surge Protection (69:39) (2 mins 2 secs)
- 701.12(C)(3) General Requirements / Generator Set (71:41) (2 mins 8 secs)
- 701.32(B) Selective Coordination / Replacements (73:49) (2 mins 3 secs)
- Lesson Test (75:52) (0 secs)

Module 5

(75:55 - 99:42)

Lesson 4

(24 minutes)

- Lesson 4 Objectives (75:55) (17 secs)
- Article 702 (76:12) (31 secs)
- 702.4(A)(2)(b) Capacity and Rating / System Capacity, Automatic Load Connection, EMS (76:43) (2 mins 17 secs)
- 702.7(A) Signs / Standby (79:00) (3 mins 19 secs)
- Article 705 (82:19) (33 secs)
- 100 Definitions - Power Production Sources, Interactive Mode, and Island Mode (82:52) (2 mins 9 secs)

- 705.11(A) Source Connections to a Service / Service Connections (85:01) (2 mins 18 secs)
- 705.11(B) Service Conductors Connected to Power Sources (87:19) (2 mins 1 sec)
- 705.20 Source Disconnecting Means (89:20) (2 mins 54 secs)
- 705.25(B) Wiring Methods / Identification of dc Power Source Output Conductors (92:14) (2 mins 19 secs)
- 705.30(D) and (E) Overcurrent Protection (94:33) (2 mins 28 secs)
- 705.32 Ground-Fault Protection of Equipment (97:01) (2 mins 38 secs)
- Lesson Test (99:39) (0 secs)

Module 6

(99:42 - 118:54)

Lesson 5

(19 minutes)

- Lesson 5 Objectives (99:42) (24 secs)
- Article 706 (100:06) (37 secs)
- 706.3 Reconditioning (100:43) (2 mins 3 secs)
- 706.7(A) Commissioning (102:46) (2 mins 31 secs)
- 706.41 Electrolyte Classification (105:17) (2 mins 25 secs)
- Article 708 (107:42) (33 secs)
- 708.6(D) Testing and Servicing / Record Keeping (108:15) (1 min 48 secs)
- 708.10(C)(2)(4) Fire Protection for Feeders (110:03) (2 mins 21 secs)
- Article 710 (112:24) (35 secs)
- Article 710 - Stand-Alone Systems (112:59) (2 mins 17 secs)
- Article 720 (115:16) (20 secs)
- 100 Definitions - Cable, Limited-Energy (Limited-Energy Cable) (115:36) (36 secs)
- 100 - Definitions - Limited-Energy System (116:12) (39 secs)
- 720.11 and Exception, Limited-Energy System Raceways in Wet Locations Above Grade (116:51) (2 mins 0 secs)
- Lesson Test (118:51) (0 secs)

Module 7

(118:54 - 142:54)

Lesson 6

(24 minutes)

- Lesson 6 Objectives (118:54) (23 secs)
- Article 721 (119:17) (24 secs)
- 721 Power Sources for Limited-Energy Systems (119:41) (1 min 59 secs)
- Article 722 (121:40) (25 secs)
- 722 Limited-Energy Cables (122:05) (2 mins 9 secs)
- 722.13 Limited-Energy Cables and Circuits Installed with Other Limited-Energy Cables and Circuits (124:14) (2 mins 9 secs)
- 722.15 Separation of Limited-Energy Circuits with Cables or Conductors of Non-Limited-Energy Cables or Circuits (126:23) (3 mins 36 secs)
- 722.100 Marking of Listed Limited-Energy Cables (129:59) (2 mins 23 secs)
- 722 Limited-Energy Cables / Part III. Limited-Energy Cables and Wiring Methods (132:22) (32 secs)

- 722 Limited-Energy Cables / Part IV. Communications Cables and Wiring Methods (132:54) (58 secs)
- 722 Limited-Energy Cables / Part V. Class 2 and Class 3 Cables and Wiring Methods (133:52) (36 secs)
- 722 Limited-Energy Cables / Part VI. Article 722 - Class 4 Cables and Wiring Methods (134:28) (33 secs)
- 722 Limited-Energy Cables / Part VII. Optical Fiber Cables and Wiring Methods (135:01) (55 secs)
- Section/Table 722.170. Applications of Listed PLFA Cables (135:56) (2 mins 15 secs)
- 722.180 Circuit Integrity (CI) Cable, Fire-Resistive Cable Systems, or Electrical Circuit Protective Systems (138:11) (2 mins 4 secs)
- Article 723 (140:15) (31 secs)
- 723 Raceways, Cable Routing Assemblies, and Cable Trays for Limited-Energy Systems (140:46) (2 mins 5 secs)
- Lesson Test (142:51) (0 secs)

Module 8

(142:54 - 165:16)

Lesson 7

(22 minutes)

- Lesson 7 Objectives (142:54) (27 secs)
- Article 724 (143:21) (32 secs)
- 724.45(B)-(C) Circuit Overcurrent Protective Device Location (143:53) (27 secs)
- Article 725 (144:20) (28 secs)
- 725.136 Separation from Electric Light, Power, Class 1, Non-Power-Limited Fire Alarm Circuit Conductors, and Medium-Power Network-Powered Broadband Communications Cables (144:48) (40 secs)
- 725.139 Installation of Conductors of Different Circuits in the Same Cable, Enclosure, Cable Tray, Raceway, or Cable Routing Assembly (145:28) (36 secs)
- Article 726 (146:04) (28 secs)
- 726.136 Separation from Electric Light, Power, Class 1, Non-Power-Limited Fire Alarm Circuit Conductors, and Medium-Power Network-Powered Broadband Communications Cables (146:32) (41 secs)
- 726.139 Installation of Conductors of Different Circuits in the Same Cable, Enclosure, Cable Tray, Raceway, or Cable Routing Assembly (147:13) (36 secs)
- Article 742 (147:49) (24 secs)
- 742 Overvoltage Protection of Limited-Energy Systems / Part I. General (148:13) (31 secs)
- 742.10 Primary Protection (148:44) (2 mins 6 secs)
- Article 750 (150:50) (26 secs)
- 750 Summary (151:16) (47 secs)

- 750 Grounding and Bonding Requirements for Limited-Energy Systems / Part I. General (152:03) (34 secs)
- 750 Grounding and Bonding Requirements for Limited-Energy Systems / Part II. Conductors and Equipment Outside and Entering Buildings (152:37) (2 mins 12 secs)
- 750.94 Intersystem Bonding (154:49) (2 mins 13 secs)
- Article 760 (157:02) (25 secs)
- Article 760 - Fire Alarm Systems (157:27) (2 mins 1 sec)
- 760.33 Supply-Side Surge Protective Device (159:28) (3 mins 23 secs)
- 100 Definitions - Microgrid (PV Systems) (162:51) (2 mins 22 secs)
- Lesson Test (165:13) (0 secs)

Module 9

(165:16 - 192:55)

Lesson 8

(28 minutes)

- Lesson 8 Objectives (165:16) (17 secs)
- Article 800 (165:33) (33 secs)
- 800.1 Scope (166:06) (2 mins 2 secs)
- 800.24(A) Mechanical Execution of Work / General (168:08) (27 secs)
- Article 810 (168:35) (35 secs)
- 810.3 Other Articles (169:10) (18 secs)
- 810.20 and 810.21 (169:28) (37 secs)
- Article 820 (170:05) (33 secs)
- 820.90 and 820.93 Grounding and Bonding of Coaxial Cable Metal Sheath Members (170:38) (19 secs)
- Article 830 (170:57) (29 secs)
- 830.90 and 830.93 Network-Powered Broadband Communications Systems (Grounding Shield of Cable) (171:26) (31 secs)
- 830, Part IV Installation Methods Within Buildings (171:57) (15 secs)
- Chapter 9 (172:12) (2 secs)
- Table 1 - Percent of Cross Section of Conduit and Tubing for Conductors and Cables (172:14) (2 mins 47 secs)
- Annex A: Informational References (175:01) (3 mins 3 secs)
- Annex A: Informational References - Table A.1 (178:04) (3 mins 3 secs)
- Informative Annex B: Application Information for Ampacity Calculation / B.8 Medium Voltage Cable Shield Current Correction Factor (181:07) (3 mins 9 secs)
- Informative Annex D: Examples (184:16) (3 mins 30 secs)
- Informative Annex E: Types of Construction (187:46) (25 secs)
- Informative Annex F: Availability and Reliability for Critical Operations Power Systems; and Development and Implementation of Functional Performance Tests (FPTs) for Critical Operations Power Systems (188:11) (2 mins 45 secs)
- Informative Annex J: ADA Standards for Accessible Design Reserved (190:56) (1 min 44 secs)

- Global Changes - Examples: Proposed Organization of the 2029 National Electrical Code (192:40) (5 mins 9 secs)
- Lesson Test (192:55) (0 secs)

Timeline Adjustments:

Questions: 40 Quiz questions @ 30 seconds each (28 minutes)

Total Course Time: 213 minutes