

## **8 Hr NEC 2020 Code Changes Course 2 Outline**

### **Lesson 1: 2020 Article 400 – 408 Outline – 1 Hr**

#### Part I. General

400.1 Scope

400.2 Other Articles

400.3 Suitability

400.5 Ampacities for Flexible Cords and Flexible Cables

400.6 Markings

400.10 Uses Permitted

400.12 Uses Not Permitted

400.13 Splices

400.14 Pull at Joints and Terminals

400.15 In Show Windows and Showcases

400.16 Overcurrent Protection

400.17 Protection from Damage

#### Part II. Construction Specifications

400.20 Labels

400.21 Construction

400.22 Grounded-Conductor Identification

400.23 Equipment Grounding Conductor Identification

400.24 Attachment Plugs

#### Part III. Portable Cables Over 600 Volts, Nominal

400.30 Scope

400.31 Construction

400.32 Shielding

400.33 Equipment Grounding Conductors

400.34 Minimum Bending Radii

400.35 Fittings

400.36 Splices and Terminations

## ARTICLE 402 Fixture Wires

402.1 Scope

402.2 Other Articles

402.6 Minimum Size

402.7 Number of Conductors in Conduit or Tubing

402.8 Grounded Conductor Identification

402.9 Marking

402.10 Uses Permitted

402.12 Uses Not Permitted

402.14 Overcurrent Protection

## ARTICLE 404 Switches

### Part I. Installation

404.1 Scope

404.2 Switch Connections

404.3 Enclosure

404.4 Damp or Wet Locations

404.5 Time Switches, Flashers, and Similar Devices

404.6 Position and Connection of Switches

404.7 Indicating

404.8 Accessibility and Grouping

404.9 General-Use Snap Switches, Dimmers, and Control Switches

404.10 Mounting of General-Use Snap Switches, Dimmers, and Control Switches

404.11 Circuit Breakers as Switches

404.12 Grounding of Enclosures

404.13 Knife Switches

404.14 Rating and Use of Switches

### Part II. Construction Specifications

404.20 Marking

404.22 Electronic Control Switches

404.26 Knife Switches Rated 600 to 1000 Volts

404.27 Fused Switches

404.28 Wire-Bending Space

## ARTICLE 406 Receptacles, Cord Connectors, and Attachment Plugs (Caps)

406.1 Scope

406.2 Definitions

406.3 Receptacle Rating and Type

406.4 General Installation Requirements

406.5 Receptacle Mounting

406.6 Receptacle Faceplates (Cover Plates)

406.7 Attachment Plugs, Cord Connectors, and Flanged Surface Devices

406.8 Noninterchangeability

406.9 Receptacles in Damp or Wet Locations

406.10 Grounding-Type Receptacles, Adapters, Cord Connectors, and Attachment Plugs

406.11 Connecting Receptacle Grounding Terminal to Box

406.12 Tamper-Resistant Receptacles

406.13 Single-Pole Separable-Connector Type

## ARTICLE 408 Switchboards, Switchgear, and Panelboards

### Part I. General

408.1 Scope

408.2 Other Articles

408.3 Support and Arrangement of Busbars and Conductors

408.4 Field Identification Required

408.5 Clearance for Conductor Entering Bus Enclosures

408.6 Short-Circuit Current Rating

408.7 Unused Openings

408.8 Reconditioning of Equipment

### Part II. Switchboards and Switchgear

408.16 Switchboards and Switchgear in Damp or Wet Locations

408.17 Location Relative to Easily Ignitable Material

408.18 Clearances

408.19 Conductor Insulation

408.20 Location of Switchboards and Switchgear

408.22 Grounding of Instruments, Relays, Meters, and Instrument Transformers on Switchboards and Switchgear

408.23 Power Monitoring and Energy Management Equipment

Part III. Panelboards

408.30 General

408.36 Overcurrent Protection

408.37 Panelboards in Damp or Wet Locations

408.38 Enclosure

408.39 Relative Arrangement of Switches and Fuses

408.40 Grounding of Panelboards

408.41 Grounded Conductor Terminations

408.43 Panelboard Orientation

Part IV. Construction Specifications

408.50 Panels

408.51 Busbars

408.52 Protection of Instrument Circuits

408.53 Component Parts

408.54 Maximum Number of Overcurrent Devices

408.55 Wire-Bending Space Within an Enclosure Containing a Panelboard

408.56 Minimum Spacings

408.58 Panelboard Marking

## **Lesson 2: 2020 Article 422-424 Outline – 1 Hr**

ARTICLE 422 Appliances

Part I. General

422.1 Scope

422.3 Other Articles

422.4 Live Parts

422.5 Ground-Fault Circuit-Interrupter (GFCI) Protection for Personnel

422.6 Listing Required

## Part II. Installation

422.10 Branch Circuits

422.11 Overcurrent Protection

422.12 Central Heating Equipment

422.13 Storage-Type Water Heaters

422.15 Central Vacuum Outlet Assemblies

422.16 Flexible Cords

422.17 Protection of Combustible Material

422.18 Support of Ceiling-Suspended (Paddle) Fans

422.19 Space for Conductors

422.20 Outlet Boxes to Be Covered

422.21 Covering of Combustible Material at Outlet Boxes

422.22 Utilizing Separable Attachment Fittings

422.23 Other Installation Methods

## Part III. Disconnecting Means

422.30 General

422.31 Disconnection of Permanently Connected Appliances

422.33 Disconnection of Cord-and-Plug-Connected or Attachment Fitting–Connected Appliances

422.34 Unit Switch(es) as Disconnecting Means

422.35 Switch and Circuit Breaker to Be Indicating

## Part IV. Construction

422.40 Polarity in Cord-and-Plug-Connected Appliances

422.41 Cord-and-Plug-Connected Appliances Subject to Immersion

422.42 Signals for Heated Appliances

422.43 Flexible Cords

422.44 Cord-and-Plug-Connected Immersion Heaters

422.45 Stands for Cord-and-Plug-Connected Appliances

422.46 Flatirons

422.47 Water Heater Controls

422.48 Infrared Lamp Industrial Heating Appliances

422.50 Cord-and-Plug-Connected Pipe Heating Assemblies

Part V. Marking

422.60 Nameplate

422.61 Marking of Heating Elements

422.62 Appliances Consisting of Motors and Other Loads

ARTICLE 424 Fixed Electric Space-Heating Equipment

Part I. General

424.1 Scope

424.2 Definitions

424.3 Other Articles

424.4 Branch Circuits

424.6 Listed Equipment

Part II. Installation

424.9 General

424.10 Special Permission

424.11 Supply Conductors

424.12 Locations

424.13 Spacing from Combustible Materials

Part III. Control and Protection of Fixed Electric Space-Heating Equipment

424.19 Disconnecting Means

424.20 Thermostatically Controlled Switching Devices

424.21 Switch and Circuit Breaker to Be Indicating

424.22 Overcurrent Protection

Part IV. Marking of Heating Equipment

424.28 Nameplate

424.29 Marking of Heating Elements

Part V. Electric Space-Heating Cables

424.34 Heating Cable Construction

424.35 Marking of Heating Cables

424.36 Clearances of Wiring in Ceilings

424.38 Area Restrictions

424.39 Clearance from Other Objects and Openings

424.40 Splices

424.41 Ceiling Installation of Heating Cables on Dry Board, in Plaster, and on Concrete

424.42 Finished Ceilings

424.43 Installation of Nonheating Leads of Cables

424.44 Installation of Cables in Concrete or Poured Masonry Floors

424.45 Installation of Cables Under Floor Coverings

424.46 Inspection

424.47 Label Provided by Manufacturer

Part VI. Duct Heaters

424.57 General

424.58 Identification

424.59 Airflow

424.60 Elevated Inlet Temperature

424.61 Installation of Duct Heaters with Heat Pumps and Air Conditioners

424.62 Condensation

424.63 Fan Circuit Interlock

424.64 Limit Controls

424.65 Location of Disconnecting Means

424.66 Installation

Part VII. Resistance-Type Boilers

424.70 Scope

424.71 Identification

424.72 Overcurrent Protection

424.73 Overtemperature Limit Control

424.74 Overpressure Limit Control

Part VIII. Electrode-Type Boilers

424.80 Scope

424.81 Identification

424.82 Branch-Circuit Requirements

424.84 Overpressure Limit Control

424.85 Grounding

424.86 Markings

Part IX. Electric Radiant Heating Panels and Heating Panel Sets

424.90 Scope

424.92 Markings

424.93 Installation

424.94 Clearances of Wiring in Ceilings

424.95 Location of Branch-Circuit and Feeder Wiring in Walls

424.96 Connection to Branch-Circuit Conductors

424.97 Nonheating Leads

424.98 Installation in Concrete or Poured Masonry

424.99 Installation Under Floor Covering

Part X. Low-Voltage Fixed Electric Space-Heating Equipment

424.100 Scope

424.101 Energy Source

424.102 Listed Equipment

424.103 Installation

424.104 Branch Circuit

### **Lesson 3: 2020 Article 425-430 Outline – 1 Hr**

ARTICLE 425 Fixed Resistance and Electrode Industrial Process Heating Equipment

Part I. General

425.2 Other Articles

425.4 Branch Circuits

425.4(B) Branch-Circuit Sizing

425.6 Listed Equipment

Part II. Installation



425.8 General

425.10 Special Permission

425.11 Supply Conductors

425.12 Locations

425.13 Spacing from Combustible Materials

425.14 Infrared Lamp Industrial Heating Equipment

Part III. Control and Protection of Fixed Industrial Process Heating Equipment

425.19 Disconnecting Means

425.21 Switch and Circuit Breaker to Be Indicating

425.22

Part IV. Marking of Heating Equipment

425.28 Nameplate

425.29 Marking of Heating Elements

425.45 Concealed Fixed Industrial Heating Equipment — Inspection

Part V. Fixed Industrial Process Duct Heaters

425.57 General

425.58 Identification

425.59 Airflow

425.60 Elevated Inlet Temperature

425.63 Fan Circuit Interlock

425.64 Limit Controls

425.65 Location of Disconnecting Means

Part VI. Fixed Industrial Process Resistance-Type Boilers

425.70 Scope

425.71 Identification

425.72 Overcurrent Protection

425.73 Overtemperature Limit Control

425.74 Overpressure Limit Control

Part VII. Fixed Industrial Process Electrode-Type Boilers

425.80 Scope

425.81 Identification

425.82 Branch-Circuit Requirements

425.83 Overtemperature Limit Control

425.84 Overpressure Limit Control

425.85 Grounding

425.86 Markings

ARTICLE 426 Fixed Outdoor Electric Deicing and Snow-Melting Equipment  
Part I. General

426.2 Definitions

426.3 Application of Other Articles

426.4 Continuous Load

Part II. Installation

426.10 General

426.11 Use

426.12 Thermal Protection

426.13 Identification

426.14 Special Permission

Part III. Resistance Heating Elements

426.20 Embedded Deicing and Snow-Melting Equipment

426.21 Exposed Deicing and Snow-Melting Equipment

426.22 Installation of Nonheating Leads for Embedded Equipment

426.23 Installation of Nonheating Leads for Exposed Equipment.

426.24 Electrical Connection

426.25 Marking

426.26 Corrosion Protection

426.27 Grounding Braid or Sheath

426.28 Ground-Fault Protection of Equipment

Part IV. Impedance Heating

426.30 Personnel Protection

426.31 Isolation Transformer

426.32 Voltage Limitations

426.33 Induced Currents

Part V. Skin-Effect Heating

426.40 Conductor Ampacity

426.41 Pull Boxes

426.42 Single Conductor in Enclosure

426.43 Corrosion Protection

426.44 Equipment Grounding Conductor

Part VI. Control and Protection

426.50 Disconnecting Means

426.51 Controllers

426.54 Cord-and-Plug-Connected Deicing and Snow-Melting Equipment

ARTICLE 427 Fixed Electric Heating Equipment for Pipelines and Vessels

Part I. General

427.2 Definitions

427.3 Application of Other Articles

427.4 Continuous Load

Part II. Installation

427.10 General

427.11 Use

427.12 Thermal Protection

427.13 Identification

Part III. Resistance Heating Elements

427.14 Secured

427.15 Not in Direct Contact

427.16 Expansion and Contraction

427.17 Flexural Capability

427.18 Power Supply Leads

427.19 Electrical Connections

427.20 Marking

427.22 Ground-Fault Protection of Equipment

427.23 Grounded Conductive Covering

Part IV. Impedance Heating

427.25 Personnel Protection

427.26 Isolation Transformer

427.27 Voltage Limitations

427.28 Induced Currents

427.29 Grounding

427.30 Secondary Conductor Sizing

Part V. Induction Heating

427.35 Scope

427.36 Personnel Protection

427.37 Induced Current

Part VI. Skin-Effect Heating

427.45 Conductor Ampacity

427.46 Pull Boxes

427.47 Single Conductor in Enclosure

427.48 Grounding

Part VII. Control and Protection

427.55 Disconnecting Means

427.56 Controls

427.57 Overcurrent Protection

ARTICLE 430 Motors, Motor Circuits, and Controllers

Part I. General

430.2 Definitions

430.4 Part-Winding Motors

430.6 Ampacity and Motor Rating Determination

430.7 Marking on Motors and Multimotor Equipment

430.8 Marking on Controllers

430.9 Terminals

430.10 Wiring Space in Enclosures

## **Lesson 4: 2020 ARTICLE 700 – 702 Outline – 1 Hr**

### ARTICLE 700 Emergency Systems

#### Part I. General

##### 700.1 Scope

##### 700.2 Definitions

##### 700.3 Tests and Maintenance

##### 700.4 Capacity and Rating

##### 700.5 Transfer Equipment

##### 700.6 Signals

##### 700.7 Signs

#### Part II. Circuit Wiring

##### 700.10 Wiring, Emergency System

#### Part III. Sources of Power

##### 700.12 General Requirements

#### Part IV. Emergency System Circuits for Lighting and Power

##### 700.15 Loads on Emergency Branch Circuits

##### 700.16 Emergency Illumination

##### 700.17 Branch Circuits for Emergency Lighting

##### 700.18 Circuits for Emergency Power

##### 700.19 Multiwire Branch Circuits

#### Part V. Control — Emergency Lighting Circuits

##### 700.20 Switch Requirements

##### 700.22 Exterior Lights

##### 700.23 Dimmer and Relay Systems

##### 700.24 Directly Controlled Emergency Luminaires

##### 700.25 Branch Circuit Emergency Lighting Transfer Switch

##### 700.26 Automatic Load Control Relay

#### Part VI. Overcurrent Protection

##### 700.30 Accessibility

##### 700.31 Ground-Fault Protection of Equipment

##### 700.32 Selective Coordination

## ARTICLE 701 Legally Required Standby Systems

### Part I. General

#### 701.1 Scope

#### 701.2 Definition

#### 701.3 Tests and Maintenance

#### 701.4 Capacity and Rating

#### 701.5 Transfer Equipment

#### 701.6 Signals

#### 701.7 Signs

### Part II. Circuit Wiring

#### 701.10 Wiring Legally Required Standby Systems

### Part III. Sources of Power

#### 701.12 General Requirements

### Part IV. Overcurrent Protection

#### 701.30 Accessibility

#### 701.31 Ground-Fault Protection of Equipment

#### 701.32 Selective Coordination

## ARTICLE 702 Optional Standby Systems

### Part I. General

#### 702.1 Scope

#### 702.2 Definition

#### 702.4 Capacity and Rating

#### 702.5 Transfer Equipment

#### 702.7 Signs

### Part II. Wiring

#### 702.10 Wiring Optional Standby Systems

#### 702.11 Portable Generator Grounding

#### 702.12 Outdoor Generator Sets

## **Lesson 5: Article 705-708 Outline**

## ARTICLE 705 Interconnected Electric Power Production Sources

### Part I. General

705.1 Scope

705.2 Definitions

705.6 Equipment Approval

705.8 System Installation

705.10 Identification of Power Sources

705.11 Supply-Side Source Connections

705.12 Load-Side Source Connections

705.13 Power Control Systems

705.14 Output Characteristics

705.16 Interrupting and Short-Circuit Current Rating

705.20 Disconnecting Means, Source

705.25 Wiring Methods

705.28 Circuit Sizing and Current

705.30 Overcurrent Protection

705.32 Ground-Fault Protection

705.40 Loss of Primary Source

705.45 Unbalanced Interconnections

Part II. Microgrid Systems

705.50 System Operation

705.60 Primary Power Source Connection

705.65 Reconnection to Primary Power Source

705.70 Microgrid Interconnect Devices (MID).

ARTICLE 706 Energy Storage Systems

Part I. General

706.1 Scope

706.2 Definitions

706.3 Qualified Personnel

706.4 System Requirements

706.5 Listing

706.6 Multiple Systems

706.7 Maintenance

706.8 Storage Batteries

706.9 Maximum Voltage

Part II. Disconnecting Means

706.15 Disconnecting Means

706.16 Connection to Energy Sources

Part III. Installation Requirements

706.20 General

706.21 Directory (Identification of Power Sources)

Part IV. Circuit Requirements

706.30 Circuit Sizing and Current

706.31 Overcurrent Protection

706.33 Charge Control

Part V. Flow Battery Energy Storage Systems

706.40 General

706.41 Electrolyte Classification

706.42 Electrolyte Containment

706.43 Flow Controls

706.44 Pumps and Other Fluid Handling Equipment

Part VI. Other Energy Storage Technologies

706.50 General

ARTICLE 708 Critical Operations Power Systems (COPS)

Part I. General

708.1 Scope

708.2 Definitions

708.4 Risk Assessment

708.5 Physical Security

708.6 Testing and Maintenance

708.8 Commissioning

Part II. Circuit Wiring and Equipment

708.10 Feeder and Branch Circuit Wiring

708.11 Branch Circuit and Feeder Distribution Equipment



708.12 Feeders and Branch Circuits Supplied by COPS

708.14 Wiring of HVAC, Fire Alarm, Security, Emergency Communications, and Signaling Systems

Part III. Power Sources and Connection

708.20 Sources of Power

708.21 Ventilation

708.22 Capacity of Power Sources

708.24 Transfer Equipment

708.30 Branch Circuits Supplied by COPS

Part IV. Overcurrent Protection

708.50 Accessibility

708.52 Ground-Fault Protection of Equipment

708.54 Selective Coordination

Part V. System Performance and Analysis

708.64 Emergency Operations Plan

## **Lesson 6: Article 720 – 727 Outline – 1 Hr**

ARTICLE 720 Circuits and Equipment Operating at Less Than 50 Volts

720.1 Scope

720.2 Other Articles

720.3 Hazardous (Classified) Locations

720.4 Conductors

720.5 Lampholders

720.6 Receptacle Rating

720.7 Receptacles Required

720.9 Batteries

720.11 Mechanical Execution of Work

ARTICLE 725 Class 1, Class 2, and Class 3 Remote-Control, Signaling, and Power-Limited Circuits

Part I. General

725.1 Scope

725.2 Definitions

725.3 Other Articles

725.21 Access to Electrical Equipment Behind Panels Designed to Allow Access

725.24 Mechanical Execution of Work

725.25 Abandoned Cables

725.30 Class 1, Class 2, and Class 3 Circuit Identification

725.31 Safety-Control Equipment

725.35 Class 1, Class 2, and Class 3 Circuit Requirements

Part II. Class 1 Circuits

725.41 Class 1 Circuit Classifications and Power Source Requirements

725.43 Class 1 Circuit Overcurrent Protection

725.45 Class 1 Circuit Overcurrent Device Location

725.46 Class 1 Circuit Wiring Methods

725.48 Conductors of Different Circuits in the Same Cable, Cable Tray, Enclosure, or Raceway

725.49 Class 1 Circuit Conductors

725.51 Number of Conductors in Cable Trays and Raceway, and Ampacity Adjustment

725.52 Circuits Extending Beyond One Building

Part III. Class 2 and Class 3 Circuits

725.121 Power Sources for Class 2 and Class 3 Circuits

725.124 Circuit Marking

725.127 Wiring Methods on Supply Side of the Class 2 or Class 3 Power Source

725.130 Wiring Methods and Materials on Load Side of the Class 2 or Class 3 Power Source

725.133 Installation of Conductors and Equipment in Cables, Compartments, Cable Trays, Enclosures, Manholes, Outlet Boxes, Device Boxes, Raceways, and Cable Routing Assemblies for Class 2 and Class 3 Circuits

725.135 Installation of Class 2, Class 3, and PLTC Cables

725.136 Separation from Electric Light, Power, Class 1, Non-Power-Limited Fire Alarm Circuit Conductors, and Medium-Power Network-Powered Broadband Communications Cables

725.139 Installation of Conductors of Different Circuits in the Same Cable, Enclosure, Cable Tray, Raceway, or Cable Routing Assembly

725.141 Installation of Circuit Conductors Extending Beyond One Building

725.143 Support of Conductors

725.144 Transmission of Power and Data

725.154 Applications of Listed Class 2, Class 3, and PLTC Cables

Part IV. Listing Requirements

725.170 Listing and Marking of Equipment for Power and Data Transmission

725.179 Listing and Marking of Class 2, Class 3, and Type PLTC Cables

ARTICLE 727 Instrumentation Tray Cable: Type ITC

727.1 Scope

**Lesson 7: 2020 Article 760 Outline – 1 Hr**

ARTICLE 760 Fire Alarm Systems

Part I. General

760.1 Scope

760.2 Definitions

760.3 Other Articles

760.21 Access to Electrical Equipment Behind Panels Designed to Allow Access

760.24 Mechanical Execution of Work

760.25 Abandoned Cables

760.30 Fire Alarm Circuit Identification

760.32 Fire Alarm Circuits Extending Beyond One Building

760.35 Fire Alarm Circuit Requirements

Part II. Non-Power-Limited Fire Alarm (NPLFA) Circuits

760.41 NPLFA Circuit Power Source Requirements

760.43 NPLFA Circuit Overcurrent Protection

760.45 NPLFA Circuit Overcurrent Device Location

760.46 NPLFA Circuit Wiring

760.48 Conductors of Different Circuits in Same Cable, Enclosure, or Raceway

760.49 NPLFA Circuit Conductors

760.51 Number of Conductors in Cable Trays and Raceways, and Ampacity Adjustment Factors

760.53 Multiconductor NPLFA Cables

Part III. Power-Limited Fire Alarm (PLFA) Circuits

760.121 Power Sources for PLFA Circuits

760.124 Circuit Marking

760.127 Wiring Methods on Supply Side of the PLFA Power Source

760.130 Wiring Methods and Materials on Load Side of the PLFA Power Source

760.133 Installation of Conductors and Equipment in Cables, Compartments, Cable Trays, Enclosures, Manholes, Outlet Boxes, Device Boxes, Raceways, and Cable Routing Assemblies for Power-Limited Fire Alarm Circuits

760.135 Installation of PLFA Cables in Buildings

760.136 Separation from Electric Light, Power, Class 1, NPLFA, and Medium-Power Network-Powered Broadband Communications Circuit Conductors

760.139 Installation of Conductors of Different PLFA Circuits, Class 2, Class 3, and Communications Circuits in the Same Cable, Enclosure, Cable Tray, Raceway, or Cable Routing Assembly

760.143 Support of Conductors

760.145 Current-Carrying Continuous Line-Type Fire Detectors

760.154 Applications of Listed PLFA Cables

Part IV. Listing Requirements

760.176 Listing and Marking of NPLFA Cables

760.179 Listing and Marking of PLFA Cables and Insulated Continuous Line-Type Fire Detectors

## **Lesson 8: 2020 Article 800 Outline – 1 Hr**

ARTICLE 800 General Requirements for Communications Systems

Part I. General

800.1 Scope

800.2 Definitions

800.3 Other Articles

800.21 Access to Electrical Equipment Behind Panels Designed to Allow Access

800.24 Mechanical Execution of Work

800.25 Abandoned Cables

800.26 Spread of Fire or Products of Combustion

Part II. Wires and Cables Outside and Entering Buildings

800.44 Overhead (Aerial) Wires and Cables

800.27 Temperature Limitation of Wires and Cables

Part II. Wires and Cables Outside and Entering Buildings

800.44 Overhead (Aerial) Wires and Cables

800.49 Metal Entrance Conduit Grounding

800.53 Separation from Lightning Conductors

### Part III. Grounding Methods

800.100 Cable and Primary Protector Bonding and Grounding.

800.100(A) Bonding Conductor or Grounding Electrode Conductor.

800.100(A)(1) Insulation

800.106 Primary Protector Grounding and Bonding at Mobile Homes

### Part IV. Installation Methods Within Buildings

800.110 Raceways, Cable Routing Assemblies, and Cable Trays

800.113 Installation of Wires, Cables, Cable Routing Assemblies, and Communications Raceways

800.154 Applications of Listed Communications Wires, Cables, and Raceways, and Listed Cable Routing Assemblies

800.179 Plenum, Riser, General-Purpose, and Limited Use Cables

### Part V. Listing Requirements

800.180 Grounding Devices

800.182 Cable Routing Assemblies and Communications Raceways

## ARTICLE 805 Communications Circuits

### Part I. General

805.1 Scope

805.2 Definitions

### Part II. Wires and Cables Outside and Entering Buildings

805.47 Underground Communications Wires and Cables Entering Buildings

805.48 Unlisted Cables Entering Buildings

805.50 Circuits Requiring Primary Protectors.

### Part III. Protection

805.90 Protective Devices.

805.90(A) Application

805.93 Grounding, Bonding, or Interruption of Non-Current-Carrying Metallic Sheath Members of Communications Cables

### Part IV. Installation Methods Within Buildings

805.133 Installation of Communications Wires, Cables, and Equipment

805.154 Substitutions of Listed Communications Wires, Cables, and Raceways, and Listed Cable Routing Assemblies

### Part V. Listing Requirements

805.170 Equipment

805.173 Drop Wire and Cable

805.179 Communications Wires and Cables

## ARTICLE 810 Radio and Television Equipment

Part I. General

810.1 Scope

810.2 Definitions

810.3 Other Articles

10.4 Community Television Antenna

810.5 Radio Noise Suppressors

810.6 Antenna Lead-In Protectors

810.7 Grounding Devices

Part II. Receiving Equipment — Antenna Systems

810.11 Material

810.12 Supports

810.13 Avoidance of Contacts with Conductors of Other Systems

810.14 Splices

810.15 Grounding

810.16 Size of Wire-Strung Antenna — Receiving Station

810.17 Size of Lead-in — Receiving Station

810.18 Clearances — Receiving Stations

810.20 Antenna Discharge Units — Receiving Stations

810.21 Bonding Conductors and Grounding Electrode Conductors — Receiving Stations.

Part III. Amateur and Citizen Band Transmitting and Receiving Stations — Antenna Systems

810.51 Other Sections

810.52 Size of Antenna

810.53 Size of Lead-in Conductors

810.54 Clearance on Building

810.55 Entrance to Building

810.56 Protection Against Accidental Contact

810.57 Antenna Discharge Units — Transmitting Stations

810.58 Bonding Conductors and Grounding Electrode Conductors — Amateur and Citizen Band Transmitting and Receiving Stations

Part IV. Interior Installation — Transmitting Stations

810.70 Clearance from Other Conductors

810.71 General

## ARTICLE 820 Community Antenna Television and Radio Distribution Systems

### Part I. General

820.2 Definitions

820.3 Other Articles

820.15 Power Limitations

### Part II. Coaxial Cables Outside and Entering Buildings

820.44 Overhead (Aerial) Coaxial Cables

820.47 Underground Coaxial Cables Entering Buildings

820.48 Unlisted Cables Entering Buildings

### Part III. Protection

820.93 Grounding of the Outer Conductive Shield of Coaxial Cables

### Part IV. Grounding Methods

820.100 Cable Bonding and Grounding

820.103 Equipment Grounding

### Part V. Installation Methods Within Buildings

820.133 Installation of Coaxial Cables and Equipment

820.154 Substitutions of Listed CATV Cables

## ARTICLE 830 Network-Powered Broadband Communications Systems

### Part I. General

830.1 Scope

830.2 Definitions

830.3 Other Articles

830.15 Power Limitations

830.24 Mechanical Execution of Work.

### Part II. Cables Outside and Entering Buildings

830.40 Entrance Cables

830.44 Overhead (Aerial) Cables

830.47 Underground Network-Powered Broadband Communications Cables Entering Buildings

### Part III. Protection

830.90 Primary Electrical Protection

### Part IV. Grounding Methods

830.93 Grounding or Interruption of Metallic Members of Network-Powered Broadband Communications Cables

Part V. Installation Methods Within Buildings

830.133 Installation of Network-Powered Broadband Communications Cables and Equipment

830.160 Bends

Part VI. Listing Requirements

830.179 Network-Powered Broadband Communications Equipment and Cables

ARTICLE 840 Premises-Powered Broadband Communications Systems

Part I. General

840.1 Scope

840.2 Definitions

840.3 Other Articles

840.24 Mechanical Execution of Work

840.25 Abandoned Cables

840.26 Spread of Fire or Products of Combustion

Part II. Cables Outside and Entering Buildings

840.47 Underground Wires and Cables Entering Buildings

840.48 Unlisted Wires and Cables Entering Buildings

Part III. Protection

840.90 Protective Devices

840.94 Premises Circuits Leaving the Building

Part IV. Grounding Methods

840.101 Premises Circuits Not Leaving the Building

Part VI. Premises Powering of Communications Equipment over Communications Cables

840.160 Powering Circuits