

VIDEO USER GUIDE

2017 Understanding the National Electrical Code® Complete Training Library

Total Play Time: [46:46:50]



The best way to understand the concepts in this program is to use the videos along with the textbook. The videos contain explanations and commentary from a panel of experts that expand on the concepts in the textbook and help you understand the application of the topics in real-world situations. Whether you're a visual or an auditory learner, watching these videos will enhance your knowledge and understanding.

- Watch the videos sequentially and follow along with the textbook. Stop and review any section that you don't understand.
- Pay special attention to the detailed instructional graphics.
- Work through the questions in your textbook to test your comprehension.

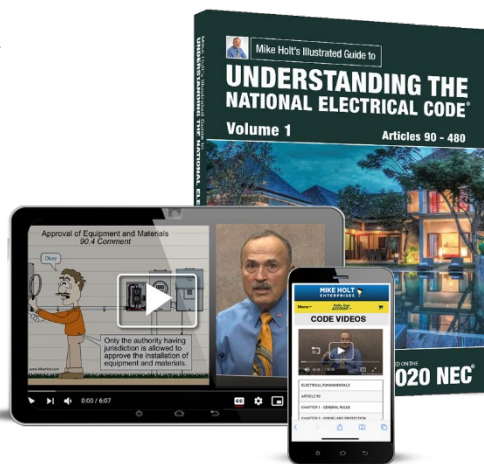


Understanding the NEC Volume 1

Based on the 2020 NEC®

VIDEO USER GUIDE

Play Time Total 30:12:42



2020 Understanding the NEC Volume 1 Video Play Time

	<u>Play Time</u>	<u>Book Page #</u>
ARTICLE 90 – INTRODUCTION TO THE NATIONAL ELECTRICAL CODE	[1:16:43]	page 7
CHAPTER 1 – GENERAL RULES	[5:35:50]	page 19
Article 100—Definitions	[1:55:47]	
Article 110—Requirements for Electrical Installations	[3:40:03]	
CHAPTER 2 – WIRING AND PROTECTION	[3:37:23]	page 101
Article 200—Use and Identification of Neutral Conductors.....	[0:49:56]	
Article 210—Branch Circuits	[3:02:25]	
Article 215—Feeders	[0:08:57]	
Article 220—Branch-Circuit, Feeder, and Service Load Calculations.....	[0:02:21]	
Article 225—Outside Branch Circuits and Feeders	[0:23:15]	
Article 230—Services.....	[0:01:31]	
Article 240—Overcurrent Protection	[0:41:54]	
CHAPTER 3—WIRING METHODS AND MATERIALS [13:23:19].....		page 323
Article 300—General Requirements for Wiring Methods and Materials.....	[3:04:53]	
Article 310—Conductors for General Wiring.....	[0:36:15]	
Article 312—Cabinets, Cutout Boxes, and Meter Socket Enclosures.....	[0:26:49]	
Article 314—Outlet, Device, Pull, and Junction Boxes, Conduit Bodies, and Handhole Enclosures.....	[1:03:31]	
Article 320—Armored Cable (Type AC).....	[0:24:01]	
Article 330—Metal-Clad Cable (Type MC).....	[0:25:42]	
Article 334—Nonmetallic-Sheathed Cable (Type NM).....	[0:36:16]	

	<u>Play Time</u>	<u>Book Page #</u>
Article 336—Power and Control Tray Cable (Type TC).....	[0:05:03]	
Article 338—Service-Entrance Cable (Types SE and USE)	[0:08:17]	
Article 340—Underground Feeder and Branch-Circuit Cable (Type UF)	[0:09:57]	
Article 342—Intermediate Metal Conduit (Type IMC)	[1:13:55]	
Article 344—Rigid Metal Conduit (Type RMC)	[0:50:59]	
Article 348—Flexible Metal Conduit (Type FMC).....	[0:31:26]	
Article 350—Liquidtight Flexible Metal Conduit (Type LFMC).....	[0:21:03]	
Article 352—Rigid Polyvinyl Chloride Conduit (Type PVC)	[0:37:04]	
Article 356—Liquidtight Flexible Nonmetallic Conduit (Type LFNC)	[0:19:20]	
Article 358—Electrical Metallic Tubing (Type EMT).....	[0:15:14]	
Article 362—Electrical Nonmetallic Tubing (Type ENT)	[0:26:43]	
Article 376—Metal Wireways	[0:33:29]	
Article 380—Multioutlet Assemblies.....	[0:11:09]	
Article 386—Surface Metal Raceways	[0:06:32]	
Article 392—Cable Trays.....	[0:55:41]	

CHAPTER 4—EQUIPMENT FOR GENERAL USE [6:19:27] page 505

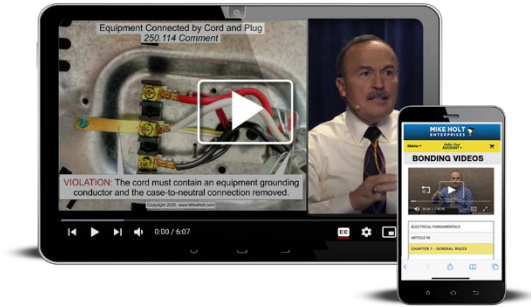
Article 400—Flexible Cords and Flexible Cables	[0:47:47]
Article 404—Switches.....	[1:06:12]
Article 406—Receptacles, Cord Connectors, and Attachment Plugs.....	[1:09:15]
Article 408—Switchboards, Switchgear, and Panelboards.....	[0:50:25]
Article 410—Luminaires, Lampholders, and Lamps	[0:50:28]
Article 411—Low-Voltage Lighting	[0:08:49]
Article 422—Appliances.....	[0:13:16]
Article 424—Fixed Electric Space-Heating Equipment	[0:11:24]
Article 430—Motors, Motor Circuits, and Controllers	[0:20:15]
Article 440—Air-Conditioning and Refrigeration Equipment..	[0:09:14]
Article 445—Generators	[0:17:44]
Article 450—Transformers and Transformer Vaults.....	[0:14:38]

Bonding & Grounding

Based on the 2017 NEC®

VIDEO USER GUIDE

Play Time Total 16:02:52



Please note: The Bonding and Grounding video series was made for a different book, but we have included all of the video clips to help you understand the full scope of this important topic. The page numbers shown are from the **Understanding the National Electrical Code Volume 1** textbook that covers the same topics.

	<u>Play Time</u>	<u>Book Page #</u>
Article 90—Introduction to the National Electrical Code	[0:08:07]	page 7
CHAPTER 1 – GENERAL RULES	[1:25:51]	page 19
Article 100—Definitions	[0:58:15]	
Article 110—Approval of Conductors and Equipment.....	[0:27:36]	
CHAPTER 2 – WIRING AND PROTECTION	[9:59:46]	page 223
Article 250—Grounding and Bonding – Part I	[2:51:23]	
Article 250—Grounding and Bonding – Part II.....	[1:27:37]	
Article 250—Grounding and Bonding – Part III	[2:20:46]	
Article 250—Grounding and Bonding – Part IV	[0:05:17]	
Article 250—Grounding and Bonding – Part V	[1:34:54]	
Article 250—Grounding and Bonding – Part VI	[0:42:58]	
Article 250—Grounding and Bonding – Part VII.....	[0:56:51]	
CHAPTER 3—WIRING METHODS AND MATERIALS [1:04:25].....		page 319
Article 300—General Requirements for Wiring Methods and Materials	[0:17:35]	
Article 314—Outlet, Device, Pull, and Junction Boxes, Conduit Bodies, and Handhole Enclosures.....	[0:07:52]	
Articles 320—392 Armored Cable (Type AC) – Cable Trays	[0:39:58]	

	<u>Play Time</u>	<u>Book Page #</u>
CHAPTER 4—EQUIPMENT FOR GENERAL USE.....	[0:46:55]	page 503
Article 404—Switches.....	[0:05:13]	
Article 406—Receptacles, Cord Connectors, and Attachment Plugs (Caps)	[0:13:20]	
Article 408—Switchboards, Switchgear, and Panelboards.....	[0:08:32]	
Article 410—Luminaires, Lampholders, and Lamps	[0:09:54]	
Article 440—Air-Conditioning and Refrigeration Equipment..	[0:05:33]	
Article 450—Transformers	[0:04:23]	

Please note: The Bonding and Grounding video series was made for a different book, but we have included all of the video clips to help you understand the full scope of this important topic. The page numbers for the clips shown below are from the **Understanding the National Electrical Code Volume 2** textbook that covers the same topics.

CHAPTER 5—SPECIAL OCCUPANCIES.....	[0:38:28]	page 91
Articles 501—503 Classes I to III Hazardous (Classified) Locations.....	[0:05:53]	
Article 517—Health Care Facilities	[0:24:29]	
Article 547—Agricultural Buildings.....	[0:07:11]	
Article 555—Marinas, Boatyards, and Docking Facilities	[0:00:55]	

CHAPTER 6—SPECIAL EQUIPMENT	[1:37:44]	page 211
Article 600—Electric Signs and Outline Lighting.....	[0:01:43]	
Article 645—Information Technology Equipment.....	[0:05:43]	
Article 680—Swimming Pools, Spas, Hot Tubs, Fountains, and Similar Installations	[0:56:13]	
Article 690—Solar Photovoltaic (PV) Systems	[0:34:05]	

CHAPTER 8—COMMUNICATIONS SYSTEMS	[0:11:35]	page 383
Articles 800—820 Communications Circuits—CATV and Radio Distribution Systems	[0:11:35]	

Understanding the NEC Volume 2

Based on the 2020 NEC®

VIDEO USER GUIDE

Play Time Total 16:33:20



2020 Understanding the NEC Volume 2 Video Play Time

	<u>Play Time</u>	<u>Book Page #</u>
CHAPTER 5 – SPECIAL OCCUPANCIES	[5:31:03]	page 101
Article 500—Hazardous (Classified) Locations.....	[1:08:19]	
Article 501—Class I Hazardous (Classified) Locations.....	[1:18:36]	
Article 502—Class II Hazardous (Classified) Locations	[0:19:13]	
Article 503—Class III Hazardous (Classified) Locations.....	[0:10:46]	
Article 511—Commercial Garages, Repair and Storage.....	[0:18:18]	
Article 517—Health Care Facilities	[0:44:05]	
Article 547—Agricultural Buildings.....	[0:19:21]	
Article 555—Marinas, Boatyards, and Docking Facilities	[0:48:16]	
Article 590—Temporary Installations	[0:23:51]	
CHAPTER 6 – SPECIAL EQUIPMENT	[6:01:08]	page 209
Article 600—Electric Signs and Outline Lighting.....	[1:10:33]	
Article 604—Manufactured Wiring Systems	[0:05:39]	
Article 620—Elevators, Escalators, and Moving Walks	[0:24:38]	
Article 625—Electric Vehicle Power Transfer System.....	[0:21:49]	
Article 680—Swimming Pools, Spas, Hot Tubs, Fountains, and Similar Installations.....	[3:08:23]	
Article 690—Solar Photovoltaic (PV) Systems	[0:02:07]	
Article 695—Fire Pumps.....	[0:47:59]	
CHAPTER 7 – SPECIAL CONDITIONS.....	[4:22:10]	page 343
Article 700—Emergency Systems	[1:04:55]	
Article 701—Legally Required Standby Systems	[0:12:42]	
Article 702—Optional Standby Systems	[0:07:34]	

	<u>Play Time</u>	<u>Book Page #</u>
Article 725—Remote-Control, Signaling, and Power-Limited Circuits	[2:44:54]	
Article 760—Fire Alarm Systems.....	[0:07:51]	
Article 770—Optical Fiber Cables.....	[0:04:14]	

CHAPTER 8 – COMMUNICATIONS SYSTEMS..... [0:38:59] page 449

Article 800—General Requirements for Communications Systems	[0:11:29]	
Article 805—General Requirements for Communications Circuits.....	[0:00:46]	
Article 810—Radio and Television Antenna Equipment	[0:14:07]	
Article 820—Community Antenna Television (CATV) and Radio Distribution Systems (Coaxial Cable)	[0:12:37]	