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2017 Bonding and Grounding Online Course

Provider: Mike Holt Enterprises

Course Title:
2017 Bonding and Grounding Online Course

Course Time Table:
This is a non-classroom online course that requires the student to be present for 8 hours of instruction.
Introduction to the NEC
Chapter 1 – General Rules
Chapter 2 – Wiring and Protection
Chapter 3 – Wiring Methods and Materials
Chapter 4 – Equipment for General Use
Chapter 5 – Special Occupancies
Chapter 6 – Special Equipment
Chapter 8 – Communications Systems
Total Questions……160 questions

Course Description:
This course is based on the content from Mike Holt's Understanding NEC Requirements for Bonding and Grounding textbook. This program identifies all areas of the code from Articles 90 through Articles 820 that specifically address Grounding and Bonding.

Course Format:
The format of the course is designed to encourage constant interaction with the student. Each course is set-up to provide students with a page of text followed by a question that they must answer as they go through the material. This provides immediate application of the content learned. This format keeps students actively engaged in their learning through the entirety of the course.

In addition, all students give feedback on courses through surveys and we are able to continue to enhance the program based on this consistent feedback.

Method of Presentation:
Affidavits. Students will be required to electronically sign the following affidavit when taking this online course:

> *Beginning of the course:*
> I hereby certify that I am the person completing the following course (Name of Course) and that I will complete this course completely on my own. By entering my name below, I am ensuring I am the student who is enrolled in and completing this course
>
> *At the end of the course:*
> I hereby certify that I have completed all questions and exams in the following course (Name of Course). I have completed this on my own without any help from others. By entering my name below, I am agreeing that all information is accurate.

Course Timer. Our courses track all student progress and has a built-in timer. The timer will be set with 400 minutes, which requires the student to work in the course for the state required amount of time. Students will not be able to receive credit unless they have met the minimum time requirement for this course. Students can track their time remaining by viewing the course timer while they are logged into the course.

Student Computer. Students will not be allowed to be logged into multiple computers at once while completing our courses. Students will only be able to log into one computer to successfully take the course.

Method of Evaluation:
Student comprehension is tested immediately with page level questions. They must pass these exams with a 75% or better to receive credit for this course.

Course Instructor: Mike Holt, bio/resume attached

Detailed Syllabus: See Attached

Topical Outline:

Introduction to the National Electric Code

	Section Information Covered
	Article 90 – Introduction to the National Electrical Code

Chapter 1 – General Rules

	Section Information Covered
	Article 100 – Definitions
	Article 110 – Requirements for Electrical Installations

Chapter 2 – Wiring and Protection

	Section Information Covered
	Article 250 – Grounding and Bonding15

Chapter 3 – Wiring Methods and Materials

	Section Information Covered
	Article 300 – General Requirements for Wiring Methods and Materials
	Article 314 – Outlet, Device, Pull and Junction Boxes; Conduit Bodies; Fittings; and Handhole Enclosures
	Article 320 – Armored Cable (Type AC)
	Article 330 – Metal-Clad Cable (Type MC)
	Article 334 – Nonmetallic Sheathed Cable (Types NM and NMC)
	Article 348 – Flexible Metal Conduit (Type FMC)
	Article 350 – Liquidtight Flexible Metal Conduit (Type LFMC)
	Article 352 – Rigid Polyvinyl Chloride Conduit (Type PVC)
	Article 356 – Liquidtight Flexible Nonmetallic Conduit (Type LFNC)
	Article 358 – Electrical Metallic Tubing (Type EMT)
	Article 362 – Electrical Nonmetallic Tubing (Type ENT)
	Article 386 – Surface Metal Raceways
	Article 392 – Cable Trays

Chapter 4 – Equipment for General Use

	Section Information Covered
	Article 404 – Switches
	Article 406 – Receptacles, Cord Connectors, and Attachment Plugs (Caps)
	Article 408 – Switchboards, Switchgear, and Panelboards
	Article 410 – Luminaries, Lamp holders, and Lamps
	Article 440 – Air-Conditioning and Refrigeration Equipment
	Article 450 – Transformers

Chapter 5 – Special Occupancies

	Section Information Covered
	Article 501 – Class I Hazardous (Classified) Locations
	Article 502 – Class II Hazardous (Classified) Locations
	Article 503 – Class III Hazardous (Classified) Locations
	Article 517 – Health Care Facilities
	Article 525 – Carnivals, Circuses, Fairs, and Similar Events
	Article 547 – Agricultural Buildings
	Article 555 – Marinas, Boatyards, Commercial and Noncommercial Docking Facilities

Chapter 6 – Special Equipment

	Section Information Covered
	Article 600 – Electric Signs and Outline Lighting
	Article 640 – Audio Signal Processing, Amplification, and Reproduction Equipment
	Article 645 – Information Technology Equipment
	Article 680 – Swimming Pools, Spas, Hot Tubs, Fountains, and Similar Installations
	Article 690 – Solar Photovoltaic (PV) Systems

Chapter 8 – Communications Systems

	Section Information Covered
	Article 800 – Communications Circuits
	Article 810 – Radio and Television Satellite Equipment
	Article 820 – Community Antenna Television (CATV) and Radio Distribution Systems (Coaxial Cable)