

# Title: 2020 Bonding and Grounding

## Provider Information

Provider	Instructor	Email
Kennecott Training	Scott R Seals	Scott.seals@riotinto.com

## General Information

### Disclaimer

We are providing this class through Mike Holt Enterprises Capacitor, Online Learning Software. We are authorized to use this program and the material covered for the purposes of presenting a CEU class.

### Course Description

Hours: 8

This course follows Mike Holt's Understanding NEC Requirements for Bonding and Grounding textbook. This program identifies areas of the code covered in Articles 90, 110, and 250 that specifically address Grounding and Bonding. The students will receive this textbook to work in conjunction with their online program.

### Expectations and Goals

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 or video presentation 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.

### Student Feedback

Our online course provides the student with the ability to send questions about the class directly to the instructor.

## Course Materials

### Required Materials

The students are provided with the corresponding class textbook when they register. All students must have a computer and reliable internet connection. This will be taught in person at our training center in Daybreak, South Jordan.

## Methods of Presentation

### Text

The course utilizes text and full-color illustrations to help you visualize the change and safety requirements in practical use. You will review author's comments & analysis, cautions regarding possible conflict or confusing NEC requirements, tips on proper electrical installations, and warnings of dangers related to improper electrical installations.

## Quiz Questions

Student comprehension is tested immediately with page or video level questions. They must pass these quizzes with an 80% or better to receive credit for this course.

## Program Security Settings

### Affidavits

Students will be required to electronically sign the following affidavit when taking this online course:

I hereby certify that I am the person completing the following course (Bonding and Grounding 2020 NEC) 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

### 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 have at least 8 hours of activity at 50 minutes per credit hour. 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.

### Inactivity Timer

Students will automatically be logged out of the course after 30 minutes of inactivity.

## Course Topics

Module	Topics	Presentation
Introduction to the National Electric Code	Article 90 - Introduction to the National Electrical Code	
Chapter 1- General Rules	Article 100- Definitions	
	Article 110.3- Examination, Identification, Installation, Use, and Product Listing of Equipment	
	Article 110.5- Conductors	
	Article 110.14 Conductor Termination Splicing	
	Article 110.22- Identification of Disconnect Means	
Chapter 2- Wiring and Protection	Article 210- Branch Circuits	
	Article 215- Feeders	
	Article 220- Branch Circuit, Feeder, and Service Load Calculations	
	Article 225- Outside branch Circuits and Feeders	
	Article 230- Services	
	Article 240- Overcurrent Protection	

	Article 250- Grounding and Bonding		
<b>Chapter 3- Wiring Methods and Materials</b>	Article 300- General Requirements for Wiring Methods and Materials		
	Article 310- Conductors for General Wiring		
	Article 312- Cabinets and Cutout Boxes		
	Article 314- Outlet, Device, Pull and Junction Boxes, Conduit Bodies, Fittings, & Handhole Enclosures		
<b>Chapter 4- Equipment for General Use</b>	Article 445 - Generators		
	Article 450 - Transformers		

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