Title: 2020 NEC Changes, Articles 90-805 Instructor Led

# Provider Information

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| Provider | Instructor | Email |
| Rio Tinto Kennecott | Scott R Seals  | Scott.seals@riotinto.com  |

# General Information

## Disclaimer

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

## Course Description

Hours:12

This course follows *Mike Holt’s Illustrated Changes to the NEC 2020.* It covers those installation requirements, focusing on Chapters 1-3 & 4, that we consider to be of critical importance. 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 course provides the student with the ability to send/discuss 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.

# 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 165 questions**

Student comprehension is tested immediately with page or video level questions. They must pass these quizzes with a 75% or better to receive credit for this course.

# Program Security Settings

**Affidavits**

Students will be required to electronically sign the following affidavit if/when taking this online 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

**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.

# Course Topics

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| Module | Topics | Presentation |
| **Introduction** |

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| Article 90.1- Purpose of the NEC |
| Article 90.2- Scope of the NEC |

 | Classroom Presentation - Text/Video/Quiz |
| **Chapter 1- General Rules** |

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| 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 |

 | Classroom Presentation -Text/Video/Quiz |
| **Chapter 2- Wiring and Protection** |

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| 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 |

 | Classroom Presentation -Text/Video/Quiz |
| **Chapter 3- Wiring Methods and Materials** |

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| 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 |

 | Classroom Presentation -Text/Video/Quiz |
| Chapter 4- Equipment for General Use |

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| Article 400- Flexible Cords and Flexible Cables |
| Article 404 - Switches  |
| Article 406 - Receptacles, Cord Connectors, and Attachment Plugs (Caps)  |
| Article 408 – Switchboards, Switchgear, and Panelboards  |
| Article 410 – Luminaires |
| Article 422 - Appliances  |
| Article 424 – Electric Space Heating |
| Article 440 - Air-Conditioning and Refrigeration Equipment  |
| Article 445 – Generators |
| Article 450 – Transformers |

 |  Classroom Presentation -Text/Video/Quiz |