

**Imlah Electrical Consulting 3-28-2023**

**Electrical Continuing Education, Grounding and Bonding Part 1**

**PowerPoint Slide Presentation, 4-Hr.**

**Course Outline, Instructor James Imlah \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course Description:**

4-hour presentation of the significant changes for the last published “*Soares Electrical Grounding and Bonding*” using the IAEI (International Association of Electrical Inspectors) presentation. This course will provide a Power Point presentation to meet the 4-hour requirements for individuals who hold a State of Utah Electrical License needing Code Change (CC) CEU credit.

**Course Objectives:**

* The presentation will provide clarification and understanding of the changes to Grounding and Bonding of the adopted “*National Electrical Code*” (NEC).
* Presentation and discussion of the NEC Grounding and Bonding requirements
* NEC articles will cover definitions, Article 250, and other NEC articles with grounding and bonding references back to NEC Article 250.
* Training will allow attendees to ask questions and have open discussion for what effects grounding and bonding of electrical system requirements for low impedance paths for electrical installations.

**Class Content:**

* Presentation will cover significant changes in the following Articles and Chapters:
* Grounding Fundamentals, .25-hour
* Electrical service Grounding, .5-hour
* Bonding Jumpers-Service bonding, .5-hour
* Grounding Electrode System, Grounding Electrode Conductors, .5-hour
* Coffee break 15 minutes
* Equipment Grounding Conductors and Equipment Grounding, .5-hour
* Grounding Separately Derived Systems, .5-hour
* Grounding & Bonding at Buildings or Structure’s, .25-hour
* Grounding & Bonding for Low-Voltage, Intersystem Grounding, *.25-hour*

**Materials Required:**

* Current published NEC (NFPA-70) model code.

**Presentation Materials:**

* Program presentation using “*Soares Grounding and Bonding,* IAEI Power Point Slides

**Course Attendees**

This course is designed for all Utah licensed electricians. Additionally, the training is open to others such as engineers, apprentices, trainees or other interested parties.

**Course Documentation**

* Upon competition of the training, 4-hours of Code Change (CC) CEU's will be submitted within 7 working days.
* A sign-in roster will be maintained for 5-years and made available upon request
* Course survey forms will be given to attendees and will be maintained for 5-years and made available upon request.
* Attendees will receive by e-mail or onsite Certificate of Completion for provided training