**Imlah** ***Electrical Consulting*** 9-7-2024

**Electrical Continuing Education, 4-Hr. Code Change**

**“Services Course Outline”**

**Instructor James Imlah**

**Course Syllabus:**

This 4-hour code-change power point presentation will be based on the 2023 NEC (National Electrical Code©). This presentation will provide close examination of electrical service requirements with specific code references for minimum code compliance. Topics will cover service conductors’ overcurrent protection and their installation requirements. Presentation will include grounding, bonding, disconnecting means and overcurrent protection. There will be an in-depth discussion with calculation examples based on sizing for calculated loads, neutral conductor, grounding and bonding conductors.

**Course content, Objectives and time spent:**

* History of services and changes through time, .5-Hour
* Number of services special conditions, .5 Hour
* Overhead and underground service conductors, .5 Hour
* Service entrance conductors .5 Hour
* Coffee Break, .25 hour (15 minutes)
* Disconnecting means for services, .5 Hour
* Service equipment overcurrent protection, .75 Hour
* Service calculation examples, .5 hour

**Course Outcomes:**

The training is to help the attendee understand the needs of calculated loads, environmental conditions including grounding and bonding requirements for services. The intent of the presentation is for the consideration of conditions and allowances affecting services. The attendee will be able to understand the code installation requirements. All attendees will have the ability to ask questions to provide clarification based on the adopted electrical code.

**Resources:**

PowerPoint presentation with calculation sheets when face to face training is presented

**Course Attendees**

This course would be primarily for any Utah licensed electricians. Other persons such as engineers or apprentice electricians will find the training educational.

**Course Documentation**

* Upon competition of the training, 4 hours of CR (Code Change) CEU's will be submitted within 10 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.
* Certificates of Completion will be emailed or presented at onsite training sessions