

## **Tutorial #1 The National Electrical Code (NEC) 2023 changes – Ryan Walden & Dan Neeser**

This half-day tutorial will provide educational instruction on the 2023 NEC code changes impacting electrical engineers and electricians. Fundamental revisions around available fault current, short-circuit current ratings, selective coordination, incident energy and grounding will be covered. Practical instruction for electrical engineers will be presented to increase the likelihood of proper system performance and compliance with the NEC grounding and bonding requirements. The tutorial is formatted for Electrical Engineers of commercial and industrial electrical systems which are governed by the NEC, and is highly recommended as a review supplement for those preparing to take the Electrical P. E. or current P.E.'s that need to fulfill ongoing requirements for continuous education. IEEE Professional Development Hour (PDH) Certificates for 4 hours will be available to all participants after completion of this course.

### **Presenter Biographies**

**Ryan Walden** is a senior field application engineer for Eaton's Bussmann series solutions. He provides technical assistance to consulting engineers, OEMs, electrical contractors, industrials, and electrical inspectors. He has over 41 years of experience in the electrical industry working for some of the largest manufacturers and users of electrical products, with extensive experience in Automation and Controls. He is a state certificated electrical trainer in Washington and Oregon. His field experience varies from large bucket cranes, 113ft tall dam gate on the Columbia River and 1500 hp 480 Vac cement plant kiln, plus many more. Over the years he has been an active member of ISA and IEEE, with the initiative to help reduce the complex to simple when providing training.

**Dan Neeser** is a senior field application engineer for Eaton's Bussmann series solutions. He provides technical assistance to consulting engineers, OEMs, electrical contractors, industrials and electrical inspectors. He has been with Eaton (Cutler-Hammer and Bussmann) since 1993 and specializes in training on the design and application of overcurrent protective devices and equipment in electrical distribution systems in accordance with the National Electrical Code® and equipment in accordance with the various product standards. He participates in IEEE (Senior Member) with Industrial and Commercial Power Systems, NEMA, NFPA (committee member for NEC® CMP-1, CMP-13 and NFPA 79), UL (508/60947 and 508A) and IAEI activities.