

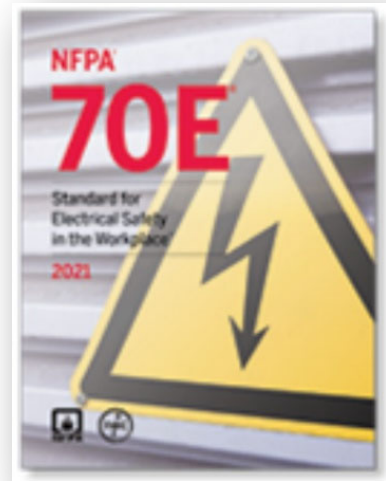
Changes to the NFPA 70E 2021

Lunch Presentation

Friday November 6, 2020

High Noon

Seattle Washington



Join us for a presentation on Changes to the NFPA 70E 2021 - Capacitors. We will discuss:

1. Informative Annex R Working with Capacitors
2. Labeling Requirements for Capacitors
3. Shock, Short Circuit, Thermal, Arc Flash, and Arc Blast Hazard for Capacitors
4. Determining Capacitor Stored Energy
5. Capacitor Discharge of the Line

***** LIVE DEMONSTRATION *****

Our speaker today is Mike Brisbois

Mike will be discussing the changes to NFPA 70E standard regarding capacitors. We will also have a live demonstration of capacitor discharge using the capacitor discharge stick. As the standard evolves new and important safety protocols are adopted by the industry. The sooner you understand and adopt these critical safety standards the sooner you and your workers can be electrically competent. For example, the 2015 NFPA 70E allowed workers to work energized on 208V and 480V equipment with only PPE 2 which is 8 cal/cm² to open electrical switchgear. Since the 2018 NFPA 70E eliminated the PPE task tables and added the caveat of not to exceed available fault current levels. Using today's Standard does not specifically state workers can don PPE 2 for energized work. Therefore, it is important to understand the Standard. Learn more about the dangers of capacitance in the line and how to safely discharge.

Mike Brisbois, PE

Over 35 years in the industry Mike performed over +100 arc flash studies for the FAA including Honolulu, Anchorage and Phoenix. He maintained current incident energies for over 1,600 devices at the Naval Shipyard Bremerton Washington with the Navy. At Sigma Six Solutions he performed an arc flash study for the CH2MHill wastewater facility in Vancouver Washington. Mike did presentations for the IEEE Power and Energy Society March 10, 2010 and for all the electricians +80 at the Puget Sound Naval Shipyard. He created arc flash reports using software including Paladin EDSA, SKM, eTap and Easy Power. Mike has written MOPs, LO/TO procedures, and test scripts to ensure operation of electrical systems performed as planned. He specified major electrical switchgear including Eaton, Cutler Hammer, Schneider Electric and GE. Having worked for Siemens and performed several hundred coordination studies to ensure faults stay local versus losing power to the facility. In addition to harmonics studies Mike has written insulation resistance, megger, and continuity testing procedures while at Sigma Six and Kennedy Space Center. Mike has an MBA, BSEE from Florida Institute of Technology.



The **LIVE STREAM** presentation will focus on the changes to the NFPA 70E 2021 Capacitors. RSVP today for our lunch presentation at mike.brisbois@salasobrien.com