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Tutorial 2

“Electrical Safe Work Practices for the Forest Products Industry – NFPA 70E and OSHA”

Thursday AM, 4 hours, 4 PDH hrs.

ABSTRACT:

This tutorial will cover electrical safe work practice requirements for the forest products industry employees based on NFPA 70E and OSHA. The intent of the tutorial is to provide attendees with requirements and recommendations for working safely when performing electrical work, and the personal protective equipment (PPE) requirements to safeguard personnel from electrical hazards, including electrical shock, arc-flash, and arc-blast. Key requirements of NFPA 70E "Standard for Electrical Safety in the Workplace", arc flash hazard issues, risk management, and “Safety by Design” will be addressed.

Tutorial Outline

1. Introduction - “Why Are We Here?”
2. Electrically Energized Work Policy, Electrical Hazard Analysis, Approach Boundaries
3. Job Briefings, Meters, Tools, Use of Work Zones/Barricades
4. PPE Equipment, Flash Hazard Analysis, Types of PPE, the importance of risk assessment and mitigation of the possible hazards that may exist
5. Requirements for the testing of rubber products and equipment

LEARNING OBJECTIVES:

1. Why Electrical safe work practices are important
2. The importance of Safety By Design
3. The importance of job safety planning and job briefings
4. Arc flash boundaries and when an Energized Electrical Work Permit is required
5. Understanding the importance of risk assessments and mitigation

INSTRUCTOR BIOGRAPHY:



Daryld Ray Crow (S'68, M'72, SM'03, LSM'07) graduated from the University of Houston in 1969 with a BSEE degree. After graduation Ray went to work for the Aluminum Company of America where he provided engineering support for Alcoa plants worldwide on the design, installation, and operation of power and rectifier systems, provided plant engineering support which included electrical safety, served as team leader for writing a number of Alcoa electrical standards including the development of and training for Alcoa's electrical safe work practice standard and was the team leader for electrical safety audits of Alcoa facilities. He retired from Alcoa in 1996. After retiring from Alcoa, Ray worked for Fluor Global Services and Duke Energy as a Principal Technical Specialist providing design and consulting electrical engineering for plant power distribution systems and safe work practice programs, standards, and assessments/audits.

Ray presently is the Principal Technical Specialist for DRC Consulting Ltd. and performs consulting work on electrical safe work practices standards, assessments/audits, electrical safe work practice training, and electrical engineering projects.

He was chair of the Petroleum and Chemical Industry (PCIC) Safety Subcommittee 2004-2006, chair of the 2004 IEEE IAS Electrical Safety Workshop, is an alternate member on the NFPA 70E technical committee "Standard for Electrical Safety in the Workplace", a member of the IEEE 1584 Committee, and is the working group chair responsible for revisions to IEEE 463 "Standard for Electrical Safety Practices in Electrolytic Cell Line Working Zones".

Ray has co-authored and presented papers and tutorials on electrical safety and auditing for the IEEE IAS Petroleum and Chemical Industry Committee (PCIC) conferences, has presented safety topics and tutorials at the IEEE Industry Applications Society Electrical Safety Workshops, IEEE IAS Pulp and Paper Industry Conference, and the NETA PowerTest Conferences. In 2010 Ray received the IEEE IAS Petroleum and Chemical Industry Committee Electrical Safety Excellence award. In 2017 Ray received the IEEE IAS Electrical Safety Committee "Outstanding Service Award"