

Evening Technical Presentations

Tuesday, July 31, 2018

6:00pm – 9:00pm

Drone Application in the Electrical Industry and Remo

American Technical Publishers

Instructor - Carl Hansen

Drones are growing in importance as a valuable tool for the electrical industry. Construction, maintenance, and troubleshooting tasks can be enhanced using this technology. Drone capabilities in visual data acquisition and airborne tasks have also reduced the potential for injury with traditional work practices. The FAA continues to introduce new mandates and requirements for drone use in commercial applications.

This class will provide an overview of drone applications in the electrical industry and the steps in obtaining FAA Remote Pilot Certification in compliance with the latest CFR 14, part 107 sUAS requirements.

Hart Calibration, Instrumentation Maintenance and the Fluke-744 and 754 Calibrators

Fluke Corporation

Instructors - Jim Shields and Bob Crepps

The Fluke-744 and 754 calibrators are utilized in the current Instrumentation Curriculum. These calibrators are used for teaching students the finer elements of calibration and maintenance of temperature and pressure of HART transmitters.

Meet the FOA and Learn What's New in Fiber Optic Training

The Fiber Optics Association

Instructor - Jim Hayes

The Fiber Optic Association (FOA) has partnered with the electrical training ALLIANCE/NJATC for almost two decades to train instructors on fiber optics.

This year, FOA is updating textbooks and free curriculum materials. These updated textbooks are aimed at those who teach fiber optics and premises cabling courses as well as all contractors and installers needing up-to-date reference books.

The FOA staff (Jim Hayes, President of the Fiber Optic Association and Karen Hayes, VP of Administration) will be at the session to review the FOA and its other programs. If you have questions for the FOA staff or are interested in fiber optic training, please come to the session.

Session attendees will be sent a copy of the updated FOA textbook.

Teaching Electric Motor Drives **American Technical Publishers**

Instructors - Glen Mazur and Julie Welch

Electric motor drive (AC or variable frequency drive) installation and retrofitting are increasingly more popular as a versatile and energy-efficient solution in the industry. This hands-on training mini-course provides an overview of electric motor drives and focuses on practical, hands-on techniques for teaching fundamental operating principles, wiring, control devices, programming, and troubleshooting on common industrial equipment. Many activities addressing power monitoring, retrofitting, and test instruments will be covered. Participants will leave with numerous instructional tips for effectively teaching electric motor drives.

2020 NEC® First Revision Changes **EATON-Bussman Div**

Instructor - D. Nesser

This session will present and discuss significant 2020 NEC® First Revision changes related to overcurrent protection, surge protection, and more. There will be a brief presentation on keys to identifying different types of circuit breakers, which is important when using the 70E Arc Flash PPE Category method for selecting PPE.

At the end of the session, there will be four (4) drawings. Must be present to win.

3-Phase Hands-On Lab for Power Quality **Fluke Corporation**

Instructor - Steve Uhrich

This session will measure 3-phase and 1-phase loads using PQ features, V, A, Hz, Scope, in rush Harmonics, KW, KVA, KVAR and PF.

Coyne Pediatric Basic Life Support/First Aid (Add. Fee \$175) **Coyne First Aid, Inc.**

Instructors - Craig Coyne and Charley Young

This course includes the latest information on how to teach and perform the lifesaving skills of CPR for children and infants. The course identifies the six major causes of fatal childhood injuries, and the ways and means to prevent them.

Cardiac arrest in this age group is rarely primarily of cardiac origin. It is more commonly caused by respiratory failure resulting from a variety of injuries or medical diseases. In the vast majority of cases, you are dealing with a preventable problem.

Instrumentation Updates

electrical training ALLIANCE

Instructor - Jason Lunardini (*electrical training ALLIANCE* staff)

This information session will introduce attendees to the new *Applied Science of Instrumentation* textbook and associated LMS Courses.

This is not a T-T-T Course - just information and Q&A.

Programmable Logic Relays and Their Place in the Classroom

Indianapolis Electrical JATC

Instructor - Paul Meyers

This evening course will highlight cost-effective classroom activity labs to assist instructors in the Blended Learning approach for programmable controller training.