

## **Evening Technical Presentations**

### **North Quad**

Tuesday, July 31, 2018

6:00pm – 9:00pm

#### **Drone Application and FAA Part 107 Certification Overview**

American Technical Publishers

Instructor - Carl Hansen

#### **Dining Hall**

Drones are growing in importance as a valuable tool for the electrical industry. Construction, maintenance, and troubleshooting tasks that 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.

#### **Teaching Electric Motor Drives**

American Technical Publishers

Instructors - Glen Mazur and Julie Welch

#### **Room 2175**

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-Bussmann Division

Instructor – Tom Domitrovich

### **Room 2255**

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 a JATC trainer or Committee member and present to win.

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

Coyne First Aid, Inc.

Instructors - Craig Coyne and Charley Young

### **Room 2135**

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.

## **Programmable Logic Relays and Their Place in the Classroom**

Indianapolis Electrical JATC

Instructor - Paul Meyers

### **Room 1265**

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

### **Instrumentation Updates**

***electrical training ALLIANCE CANCELLED***

Stop by North Quad Room 2265 for handout materials.

### **3-Phase Hands-On Lab for Power Quality**

**Fluke Corporation CANCELLED**

Visit the Fluke Corporation at the Trade Show. Booth 256A

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

Visit the Fluke Corporation at the Trade Show. Booth 256A

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

**The Fiber Optics Association CANCELLED**

Visit The Fiber Optics Association at the Trade Show. Booth 391A