



**Power/mation®**

# SEMINAR

## FREE SEMINAR

### DATE

August 25, 2016

### TIME

8:30 to 12:30

(lunch provided)

### LOCATION

Power/mation  
1310 Energy Lane  
St. Paul, MN 55108

## REGISTER AT OUR WEBSITE

## Turck's Hazardous Area Wiring Practices Seminar

This course highlights Intrinsic Safety and Non-incendive wiring practices for Class I/II/III Division 1 and Class I Division 2 hazardous areas. Students will discuss the National Electrical Code (NEC) and gain an understanding of hazardous area classification, electrical equipment protection, Intrinsic Safety, and Non-incendive wiring practices.

### WHO SHOULD ATTEND?

This course is open to anyone interested in learning more about hazardous area wiring practices. It is intended for technicians, application engineers, sales engineers, and end users who install or specify cable and/or instruments in hazardous areas.

### Upon completion of this course students will be able to:

1. Understand US and European classifications of hazardous areas
2. Describe some electrical equipment protection methods
3. Explain some differences between Intrinsic Safety and Non-incendive wiring practices
4. Understand some benefits of Intrinsic Safety

### AGENDA

#### Introduction to hazardous areas and Intrinsic Safety

Compares & contrasts US and European protection methods. Highlights Intrinsic Safety wiring practices found in NEC504. Compares & contrasts intrinsically safe barrier types (TIB vs. Zener). Discusses "real world" benefits of Intrinsic Safety.

#### Process wiring solutions for hazardous areas

Discuss Class I Div 2 non-incendive cable types and wiring requirements. Describes how quick-disconnect technology works with non-incendive and Intrinsically Safe wiring practices.

**Labs** - Students will apply the concepts of Intrinsically Safe and non-incendive field wiring.

Lab 1: Wire an intrinsically safe field device to an apparatus and verify IS circuit

Lab 2: Wire a non-incendive field device using quick-disconnection technology.

### MORE INFO:

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www.powermation.com | 800.843.9859