



Electrical Installations in Hazardous (Classified) Locations

RSVP: If interested in attending this seminar, please send an email to ISA_neworleans@yahoo.com. The course will be scheduled if there is adequate interest.

When: Tentative May 2010

Course Name: Electrical Installations in Hazardous (Classified) Locations

Duration: 2 days

Overview: Hazardous (classified) locations are defined by the National Electrical Code as locations where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings. The class will present information on the Division and Zone classification schemes for such locations and explain what electrical equipment and what wiring methods are allowed in them. Emphasis will be on facilities surrounding oil and gas drilling and producing facilities. Material presented primarily will be from NFPA 70 (National Electrical Code), API RP500, and API RP505, but also from other standards and recommended practices published by NFPA, IEEE, and ISA. Videos will supplement the oral presentation, and a class exercise will test the students' understanding of preparing an area classification drawing for a typical offshore oil and gas producing facility.

Learning Objectives: Upon completing this course, the student will be able to:

- (1) Prepare area classification drawings for oil and gas drilling and producing facilities and chemical plants using both the Division and the Zone classification methods.
- (2) Specify and select electrical equipment that is suitable for hazardous (classified) locations.
- (3) Specify wiring methods that are suitable for hazardous (classified) locations.
- (4) Inspect electrical systems installed in hazardous (classified) locations and determine if they utilize suitable equipment and if such equipment is installed properly.