

# HAZARDOUS AREAS

## 3-DAY COMP'EX' COMPETENCE BASED COURSE

### FOR INSTRUMENT PERSONNEL



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
03	22	36	64

#### TARGET AUDIENCE

Instrument personnel involved with equipment in hazardous areas.

#### COURSE OBJECTIVES

To raise levels of competence in aspects of instrumentation in the installation and maintenance of electrical apparatus in hazardous environments onshore and offshore to internationally set standards.

#### COURSE CONTENT

- General principles, ignition properties and apparatus protection
- Standards, certification and marking
- Flameproof EEx 'd' protection
- Pressurisation EEx 'p' protection
- Intrinsic safety EEx'i'a and EEx'l'b protection
- Other methods of protection, EEx 'o', EEx'q', EEx'm' and EEx's'
- Combined (hybrid) methods of protection
- Wiring systems, enclosure entries, cable glanding and earthing
- Inspection and maintenance to BS EN 60079-17
- Sources of ignition
- Induction to competence validation testing
- Permit to work system and safe isolation.

#### Competency Assessment

- EX03 Preparation and Installation of EEx'i'a and 'i'b Systems
- EX04 Inspection and Maintenance of EEx'i'a and 'i'b Systems

#### DELIVERY

Teaching aids, apparatus, slides, videos, practical demonstrations, questionnaires, practical competency assessment.

#### CERTIFICATION

Comp'EX' – Certificate of Core Competence.

Non-electrical or Instrumentation personnel who complete the course will be certified by Comp'EX' but deemed not electrically competent.

#### Minimum Number of Delegates Required per Event

8

#### Times of Training

08:30 to 17:00

#### Venue

28B Penjuru Close, #01-06, Singapore 609130

#### Special Requirements

Delegates are required to supply their own personal protective safety equipment.

#### Dates and prices

Please check with course administrator.

**Note to Clients:** This course can also be offered in conjunction with Hazardous Areas 5-Day Competence Based 'Ex' course dates.