



5-DAY HAZARDOUS AREAS COMP'EX' COMPETENCE BASED COURSE

Course Code : CP 5001

Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
05	35	50	50

TARGET AUDIENCE

Electrical personnel involved in the selection, installation, inspection and maintenance of electrical and instrumentation equipment for use in potentially hazardous areas.

COURSE OBJECTIVES

To raise levels of competence for personnel carrying out installation, inspection and maintenance of electrical apparatus in explosive gas atmospheres (other than mines) to the IEC 60079 series of standards

COURSE CONTENT

- General principles, ignition properties and apparatus protection, Sources of ignition
- Standards, certification and marking
- Flameproof Ex 'd' protection
- Increased safety Ex 'e' protection
- Type Ex 'n' protection
- Pressurisation Ex 'p' protection
- Intrinsic safety Ex 'i' protection
- Other methods of protection, Ex 'o', Ex 'q' and Ex 'm'
- Combined (hybrid) methods of protection
- Wiring systems, enclosure entries, cable glanding and earthing
- Installation to IEC 60079-14
- Inspection and maintenance to IEC 60079-17
- Induction to competence validation testing
- Permit to work system and safe isolation

Competency Assessment

- EX01 Preparation and Installation of Ex 'd' 'e' 'n' and 'p' Systems
- EX02 Inspection and Maintenance of Ex 'd' 'e' 'n' and 'p' Systems
- EX03 Preparation and Installation of Ex 'i' Systems
- EX04 Inspection and Maintenance of Ex 'i' Systems

DELIVERY

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

CERTIFICATION

CompEx – Certificate of Core Competence (valid for 5 years)

In order to be granted the full CompEx certificate, candidates must be practicing 'hands on' in the electrical industry, and provide documentary evidence of formal electrical qualification.

Non-electrical or Instrumentation personnel who completes the course will be certified by CompEx but deemed not electrically competent.

Minimum Number Of Candidates Required Per Event

8

Times Of Training

08:30 to 17:00

Venue

No 3, Buroh Street, Singapore 627566

Special Requirements

Candidates are required to bring their own personal protective safety equipment.

Dates And Prices

Please check with course administrator