

Hazardous Areas 5-Day Electrical 'Ex' Foundation Course

Course Code : AT 5007



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
05	35	60	40

Target Audience

Junior electrical staff involved, under supervision, in the installation, inspection and maintenance of electrical equipment in offshore oil & gas drilling and production facilities.

Course Objectives

To raise the levels of proficiency for personnel carrying out installation, inspection and maintenance of explosion protected electrical equipment for use in potentially explosive gas atmospheres.

Course Content

- General principles, and gas ignition properties
- Common sources of ignition
- Hazards and Ex safety on the drilling unit
- Wiring systems, enclosure entries, cable glanding and earthing.
- Methods of explosion protection for power equipment:- flameproof, increased safety, type 'n', pressurization and others
- Intrinsic safety protection for instrumentation and control
- What does the marking on the nameplate mean?
- Specific installation requirements for the different methods
- Inspection and Maintenance of Ex equipment
- Safe isolation, permits to work, and gas tests.

Practical Assessments

- Cable glanding and termination exercises
- Ex nameplates
- Installation of power equipment Ex 'd', 'e' and 'n'
- Inspections of power equipment Ex 'd', 'e' and 'n'
- Installation of instrumentation system Ex 'i'
- Inspections of instrumentation systems Ex 'i'

Delivery

Teaching aids, examples of Ex equipment, slides, videos, question papers, practical demonstrations, installation and inspection exercises.

Certification

Certificate of completion of course, issued by Assets Training & Technical Services Pte. Ltd.

Certificates will indicate the level of proficiency attained, by grading achievement in Theory and Practical tests in installation and inspection of electrical and instrumentation equipment.

Pre Requisites For Training

Candidates must have a formal electrical qualification, and be practicing 'hands on' electricians in the industry.

Minimum Number of Delegates Required Per Event

12

Times of Training

08:30 to 16:30

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 : Successful completion of this course is not proof of competence for unsupervised work on 'Ex' equipment. Supervisors and others in responsible positions should have completed and passed the relevant units of the CompEx scheme for Competency Validation and Certification, or hold other accredited qualifications.

Assets Training & Technical Services Pte Ltd offers CompEx units EX01, EX02, EX03 and EX04 in Singapore.

