

HAZARDOUS AREAS

3-DAY 'EX'

BASIC COURSE

Course Code : AT 3012



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
03	22	60	40

TARGET AUDIENCE

Ex Basic course will be useful to graduate engineers or anyone who conducts electrical installation or inspection of hazardous areas as well as those who wish to upgrade their practical skills and knowledge.

COURSE OBJECTIVES

To provide basic electrical installation and inspection knowledge in compliance with international standards IEC 60079-10; 14 & 17.

COURSE CONTENT

- General principals, sources of ignition and ignition properties of gases / vapours
- Hazardous Area classification, Zone, Equipment group & selection of equipment.
- Cables, cable glands, Earthing and Bonding.
- Standards, certification and marking.
- Flameproof Ex "d" Protection.
- Pressurisation Ex "P" protection, Increased safety Ex "e" protection, Type Ex "n" protection, Combined (hybrid) methods of protection.
- Intrinsic safety, Ex "i"
- Installation to recognized standards
- Inspection to recognized standards.
- Permit to work and safe isolation.

Demonstrations & Practical work

- Nameplate reading.
- Cable glanding
- Installation of power equipment
- Installation of Ex "i" equipment
- Inspection of power equipment
- Inspection of I.S. system installation.

DELIVERY

Teaching aids, apparatus, slides, videos, practical demonstrations, questionnaires, and exercises.

CERTIFICATION

ATTS Certificate of Completion.

Minimum Number Of Delegates Required Per Event
8

Times Of Training
08:30 to 17:00

Venue
No.3, Buroh Street, Singapore 627566

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

Dates And Prices
Please check with course administrator