

HAZARDOUS AREAS COMPETENCY TRAINING

NORTH AMERICAN COMPEX & SPECIALIZED COURSES

Courses are available at our licensed CompEx center in Houston, Texas, or customized training can be conducted at client facilities or job sites.

Global training calendars can be found on our [CompEx webpage](#).



CompEx Ex F: Hazardous Areas Foundation

Introduction to hazardous areas and personnel requirements.

Ex F is a course designed for people with no prior knowledge of or experience with hazardous locations, and who may at some point need a rudimentary understanding. The class provides a general overview of the requirements and dangers associated with potentially explosive environments. Content includes basic information on ATEX (European) and IECEx (global) standards, including terminology, equipment marking requirements, protection concepts, ignition sources, area classifications, and critical technical specifications for gases, vapors, and dust. Unlike other CompEx courses, Ex F does not involve exams or hands-on electrical work.

Length:	2 Days
Prior Experience:	No
Hands-on Assessment:	No
Exam:	Yes*
Certificate Issued:	CompEx Ex F Core Competence OR Certificate of Completion*

Who should attend:

Designers, project engineers, managers, sales and procurement staff, and anyone without prior knowledge looking for an introduction to hazardous area requirements.

*Optional – can opt-out of Exam for Ex F; will receive Certificate of Completion

CompEx Ex 01-04: Gas & Vapors and Refresher Class

Electrical/instrumentation installation, maintenance & inspection

Ex 01 – Ex 04 is designed for those involved in the selection, installation, and inspection of equipment intended for use in hazardous locations. Based in ATEX and IEC Standards, this course includes a combination of hands-on training and expert evaluation. Students are required to complete electrical installation exercises involving wiring, glanding, and inspection skills, however personnel without these skills may also benefit from this course. Overall, CompEx Ex 01-Ex04 consists of approximately 50% classroom-based theoretical and hands-on training, and 50% hands-on assessment and written evaluation.

Length:	5 Days
Prior Experience:	Yes
Hands-on Assessment:	Yes
Exam:	Yes
Certificate Issued:	CompEx Ex 01-04 Core Competence Certificate of Hazardous Locations

Who should attend:

Anyone who conducts electrical projects in hazardous areas, usually those with an electrical installation background, QA/QC, designers, AHJs, regulators, etc.

CompEx Ex 12: Application Design Engineers

Application design and selection of electrical equipment, including IEC 60079-14 requirements

When designing an electrical installation for use in explosive atmospheres, there is a requirement to consider the design, selection, and erection of the overall system. CompEx Ex 12 provides an in-depth awareness of the explosive atmospheres formed by gases, vapors, mists, and combustible dusts. The course covers the application design and selection of electrical equipment, along with the requirements of IEC 60079-14 (Explosive atmospheres electrical installations design, selection, and erection), including but not limited to the section of equipment, cabling, and cable glands.

Length:	5 Days
Prior Experience:	Yes
Hands-on Assessment:	No (written exam only)
Exam:	Yes
Certificate Issued:	CompEx Ex 12 Core Competence Certificate for Hazardous Locations

Who should attend:

Electrical and design engineers, project engineers, engineering maintenance personnel, and engineering managers.

HAZARDOUS AREAS COMPETENCY TRAINING



Custom Hazardous Areas Training

Customized sessions on the hazardous areas training topic of your choice

Enhance your staff's knowledge and competence regarding potentially explosive environments through a custom session at your facility or a location of your choice. Whether a short overview of one of the CompEx courses listed above or a deep dive into a specialized technical topic, custom sessions provide an introduction to relevant topics, assess interest and competence for other CompEx course registration, make sense of complex rules and regulations, and increase understanding of and technical tips for specific issues at hand.

We can also offer 'on the job' training during your construction projects for specific expedited help.

Sample topics include: North American approvals, product design, hazloc product sales, ATEX Directive, IECEx Scheme, US Coast Guard requirements, an overview of the CompEx Scheme and related courses, and more.



Only qualified applicants will be accepted for CompEx course modules requiring technical competency such as Ex 01-04 and Ex 12. The CompEx governing body requires participants to provide supporting documents verifying their qualifications (e.g., electrical, installation, etc.) and employment history relative to hazardous areas experience. Intertek can help facilitate this application process.

FOR MORE INFORMATION



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