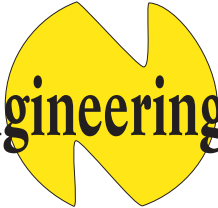


# Jones Engineering Services

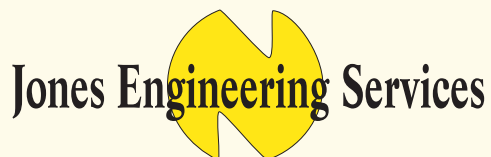
A yellow stylized logo consisting of two interlocking shapes that resemble a double-headed arrow or a stylized 'X'.

Hazardous Area Training





We are in business for over 125 years and are  
currently working in Ireland, UK, Europe  
and the Middle East





## What is CompEx?

CompEx is an internationally recognized training qualification for Electrical, Instrument and Mechanical Engineers, Supervisors and Technicians who need to develop and demonstrate their competency in the selection, installation, inspection and maintenance of “Ex” apparatus in potentially explosive atmospheres. Jones Engineering Services & UK based ExVeritas operate the first and only licensed CompEx training centre in Ireland. ExVeritas are acknowledged experts in the field of explosion prevention and a leading UK ATEX Notified Body with UKAS Accreditation for Hazardous Area Certification to EN60079-14 and are an experienced CompEx Training Centre. ExVeritas are also an IECEx accredited Test Laboratory. Our combined aim is to provide hazardous area competency based assessment training solutions locally, in the Irish market.



## Our Training Facility

Within our fully equipped training facilities, we offer a unique, realistic and custom-built hazardous working plant environment.

Through specialised training methods - both theoretical and practical - it simulates the hazardous materials which occur in the form of gas, vapour and/or dust, and techniques to overcome such situations safely.

These courses help ensure industry safety levels are maintained and increased, as both organisations and individuals will gain confidence in the safe installation, maintenance and inspection of electrical and mechanical equipment, in hazardous areas.



## Our Partners

**ExVeritas** – Are an ATEX Notified Body and IECEx Certification Body. They provide internationally recognised accredited safety and certification services including IECEx, ATEX, CE Marking and North American Certification. They also offer accredited hazardous area training such as CompEx and site safety services such as DSEAR assessments, area classification, Ex inspection and explosion risk assessments.

**SafeEx** – Is a software company providing safe and user-friendly software for Inspections and Maintenance routines in hazardous areas according to IEC 60079-17.

Once the RFID Chip is mounted and the equipment is scanned, the handheld device will automatically display the checks in question and will guide the inspector through all questions, allowing him to write comments to non-conformities and afterwards upload all information to the maintenance system, which decreases the risk of mistakes as there are no manually transcribed entries.





## Courses

The CompEx scheme is taking a lead role in providing employers with the facility to prove the core competence of their electrical / instrumentation practitioners and application design engineers as well as mechanical personnel who work in explosive atmospheres. We currently offer the following courses, which can be studied individually or as complementary pairs.

- ExF - Foundation
- Ex01 to Ex04 - Gas & Vapour Environments
- ExR - Refresher
- Ex05 & Ex06 - Combustible Dust
- Ex11 - Preparation, Installation, Inspection & Maintenance for Mechanical
- Ex12 ADE - Application Design Engineers
- Ex14 - Responsible Person



## ExF Foundation Course

The foundation course provides an overview of the requirements for working safely in a potentially explosive atmosphere. The main aim of the course is to cover some of the basic key elements to enable the adoption of safe working practices and provide a greater appreciation of the hazards associated with working in explosive atmospheres. No prior knowledge/training is required. This course is aimed at personnel such as, operators, non-practitioners and any staff who frequent 'Hazardous Areas' during their routine works. There is no practical element involved with this module.

**Course Duration: 2 Days**

# Module Breakdown

- Ex01:** The preparation & installation of Ex 'd', 'n', 'e' and 'p' equipment in potentially explosive atmospheres.
- Ex02:** The maintenance & inspection of Ex'd', 'n', 'e' and 'p' equipment in potentially explosive atmospheres.
- Ex03:** The preparation & installation of Ex 'i' equipment in potentially explosive atmospheres.
- Ex04:** The maintenance & inspection of Ex 'i' equipment in potentially explosive atmospheres.

## Ex01 to Ex04 for Gas & Vapour Environments Course

The course is intended to give awareness to the candidate with regard to working in explosive atmospheres formed by gases, vapours and mists. It covers basic elements of application design as well as a more detailed review of the specific requirement for equipment selection, installation, inspection and maintenance of electrical installations in explosive atmospheres. The course will give an understanding and awareness of the requirements of working safely in a potentially explosive atmosphere. The course covers elements of the installation requirements from a practical viewpoint. This includes but is not limited to electrical protection concepts, selection of equipment, cabling and cable glands etc., for the inspection module then a review of a typical electrical and intrinsically safe installation is also covered.

Aimed at Electrical, Instrumentation and Automation trades personnel and engineers. Prior completion of a recognised trade route is required, such as time served apprenticeship, diploma in Applied Physics, engineering etc.

**Course Duration: 5 Days**





## ExR Refresher Course

The course is intended to ensure that the candidate working in explosive atmospheres formed by gases, vapours and mists are updated on any changes that may have occurred since they completed the original Ex01-Ex04 CompEx course. It includes updates (if applicable) for equipment selection, installation, inspection and maintenance of electrical installations in explosive atmospheres. The course covers elements of the installation requirements from a practitioner's viewpoint. This includes but is not limited to electrical protection concepts, selection of equipment, cabling and cable glands etc.

For the inspection module a review of a typical electrical and intrinsically safe installation is also covered.

Must be completed within 5 years of completing your initial CompEx module.

**Course Duration: 3 Days**



## Ex 05 & Ex06 Combustible Dust Course

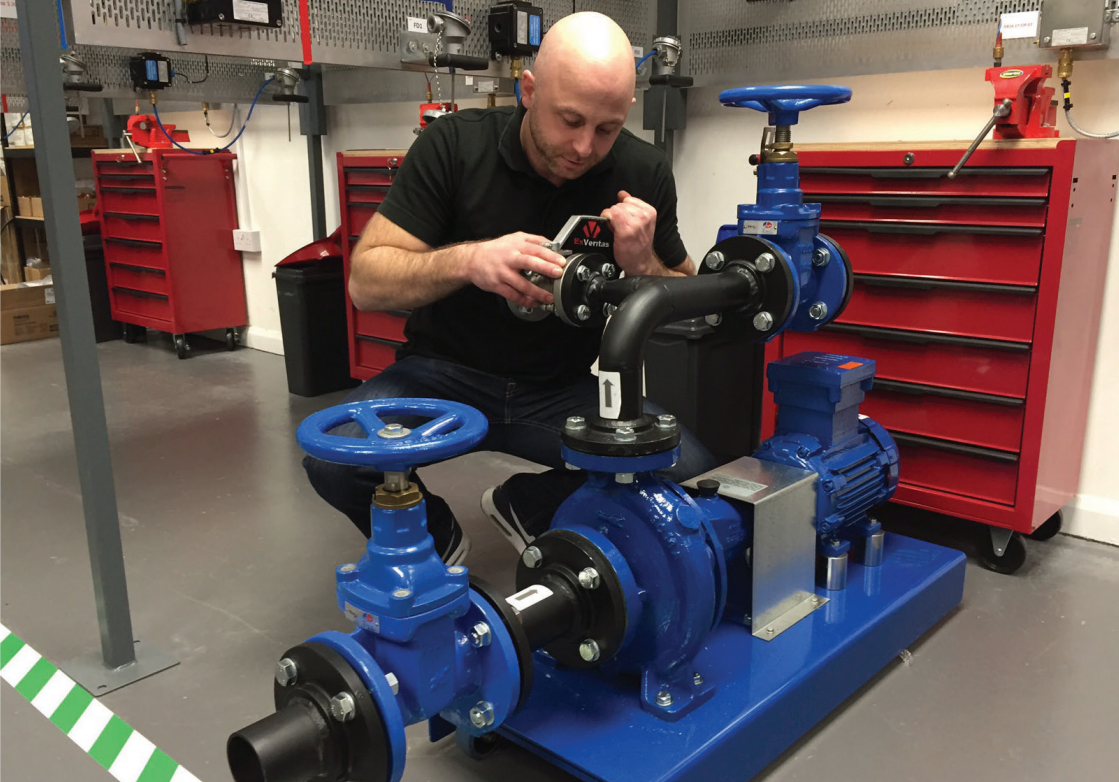
The course is intended to give awareness to the candidate with regard to working in explosive atmospheres formed by combustible dusts. It covers basic elements of application design as well as a more detailed review of the specific requirement for equipment selection, installation, inspection and maintenance of electrical installations in explosive atmospheres. The course will provide an understanding and awareness of the requirements of working safely in a potentially explosive atmosphere.

As the persons attending the course are predominately practitioners, the course covers elements of the installation requirements from a practical viewpoint. This includes but is not limited to electrical protection concepts, selection of equipment, cabling and cable glands etc. For the inspection module a review of a typical electrical installation is also covered.

Aimed at Electrical, Instrumentation and Automation trades personnel and engineers. Prior completion of a recognised trade route is required, such as time served apprenticeship, diploma in Applied Physics, engineering etc.

**Course Duration: 3 Days**





## Ex11 Preparation, Installation, Inspection & Maintenance for Mechanical Course

This course is intended to give awareness to the candidate with regard to non-electrical (mechanical) works in explosive atmospheres. ATEX (DSEAR) requires users to identify all possible ignition sources that could arise in hazardous areas. The identification of these ignition sources includes non-electrical (mechanical) items of equipment (in addition to electrical equipment covered by Ex01-04). The safety measures for non-electrical equipment used in hazardous areas not only include the design (and possible certification) of equipment but also the aspects required for safe selection, installation, maintenance, inspection and repair. CompEx Ex11 meets the competency requirements for ATEX mechanical equipment and the soon to be introduced IEC (International) non-electrical standards.

Aimed at Mechanical Trades Personnel, candidates are required to undertake a practical flange integrity test and inspection assessment. A time limit is set against the assessment as this is designed to simulate the pressures that can be encountered in the work place. In addition to the above practical assessment a candidate's knowledge is assessed by undertaking a multi-choice examination. On completion of the course certification will be awarded based on candidates passing both the practical and theoretical parts of the assessments.

**Course Duration: 3 Days**



## Ex12 ADE Application Design Engineers Course

The course is intended to give an in-depth awareness to the candidate with regard to explosive atmospheres formed by gases, vapours, mists and some insight to combustible dusts. It covers the application, design and selection of electrical equipment for use in explosive atmospheres. As the persons attending the course are Designers/Engineers or at an equivalent senior level, the course covers the basic and more in depth elements of the installation requirements from a theoretical viewpoint.

The candidate requires sufficient knowledge and experience gained from working in 'Hazardous Areas'. Ideally has already completed Ex01-Ex04, but needs to provide support documentation of technical qualifications, career history and current technical role.

Aimed at electrical and instrument design, maintenance and project engineers.

**Course Duration: 5 Days**



## Ex14 Responsible Person Course

Internationally Recognised CompEx Ex14  
Certificate of core Competence

The CompEx Ex14 module aims to assist Responsible Persons to meet their legal obligations with regard to maintaining an asset register and implementing a practical approach to the inspection and maintenance of equipment in explosive atmospheres utilising IEC 60079 Parts 14 & 17 and offering the basis of best practice in this regard.

Aimed at personnel responsible for scheduling inspections or authorising work in a 'Hazardous Area', i.e. Supervisors, Foreman etc.

**Course Duration: 4 Days**



abbvie

 **Abbott**

 **ALEXION**

 **ARAMARK**

 **Bristol-Myers Squibb**

 **BOC**

**ch2m:**

*Coca-Cola*

 **ConocoPhillips**

 **dairygold**  
Golden Values. Growing Partnerships.

 **DePuy**  
a Johnson & Johnson company

 **DPS**

*Lilly*

 **ESB**  
**INTERNATIONAL**

 **Gas Networks Ireland**



**GEA**

**SANOFI GENZYME** 

 **GILEAD**



**Guerbet**   
Contrast for Life

 **HEINEKEN**

**Hovione** 

 **IPSEN**  
Innovation for patient care

*Johnson & Johnson*

## A Selection of our Clients

**KERRY**

**KINSALE ENERGY** 



 **Mallinckrodt Pharmaceuticals**

 **MERCK**

 **Norbrook**

 **NOVARTIS**

 **PEPSICO**

 **Pernod Ricard**

 **Pfizer**



 **PINEWOOD HEALTHCARE**  
A better choice for your patients' health

**REGENERON**

**RPS**

 **SSE**

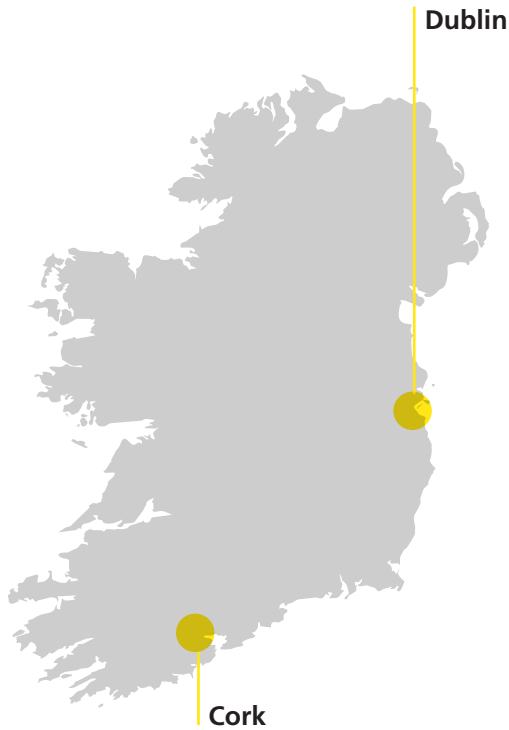
**stryker**

 **TANDEM**  
Project Management

 **teagasc**  
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

**TEVA**

 **VEOLIA**



## Locations

We have over 2,500 employees working worldwide

### Training Facility

Euro Business Park,  
Little Island,  
Co. Cork,  
T45 K510,  
Ireland

Tel: +353 (0)21 4510700

### Head Quarters

Mespil Court,  
Mespil Road,  
Dublin 4,  
D04 E516,  
Ireland

Tel: +353 (0)1 4749800

“Quality work  
through quality  
people”

For office locations see  
[www.joneseng.com](http://www.joneseng.com)



[compex@joneseng.com](mailto:compex@joneseng.com)