

# IECEx Trainings of ASE Safety Academy 2024

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- ABOUT ASE SAFETY ACADEMY ..... 2
- ASE Safety Academy..... 2
- ASE Technological Group..... 2
- EKO-KONSULT ..... 2
- Why do you need safety training courses? ..... 2
- Who needs the training? ..... 3
- ASE Safety Academy on the list of IECEx Recognised Training Providers ..... 3
- Certificates ..... 5
- Trainings on line ..... 5
- Contact..... 6
  
- IECEx TRAININGS ..... 7
- Safety of workers in potentially explosive atmospheres..... 7
- Maintenance of explosion-proof equipment in gas, liquid vapour and dust explosive atmospheres..... 8
- Gaseous and dust explosive atmospheres - classification of explosive atmospheres ..... 9

## ASE Safety Academy

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The ASE Safety Academy is a coherent and comprehensive system of specialized and certified training in the field of explosion prevention developed by experienced experts-practitioners associated with Automatic Systems Engineering - the Polish leader in explosion safety.

Regardless of the prescriptions of the law, specialist training of staff is necessary for the safety of people, the entire plant as well as a proper and smooth operation of the production process.

## ASE Technological Group

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The ASE Technological Group consists of entities covering the investment process and operation of industrial facilities - from the implementation of environmental analyzes and documentation, through design, to the implementation of systems, technologies and equipping plants with devices and components.

The unique experience gained during the implementation of safe technologies in the industry has resulted in the acquisition of exceptional competences of the engineering staff and allows us to develop in modern technologies that shape our environment. Green energy, hydrogen, glycol, energy quality, energy storage, renewable energy or LNG are technologies in which we are becoming a leader on the Polish market.

## EKO-KONSULT

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EKO-KONSULT Sp. z o.o. is a leading technical and environmental consultancy firm that has been operating for over 25 years. In 2017 it joined the ASE Technological Group.

A Polish consultancy firm based in Gdańsk, combining the experience of the EKO-KONSULT Sp. z o.o. team with the Technical Analyses Department and the training team of the ASE Safety Academy in order to support various entities in terms of environmental and technical consultancy.

We have a team of experts available for preparing and completing investments, signing a framework agreement for temporary hiring or a subscription.

## Why do you need safety training courses?

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Analyses of failures and industrial disasters clearly indicate that their most common cause are limitations in knowledge of personnel operating the production process.

ATEX Directive 1999/92/EC requires: *The employer must provide those working in places where explosive atmospheres may occur with sufficient and appropriate training with regard to explosion protection.*

IEC international standard IEC 60079-17:2013 Explosive atmospheres - Part 17: Electrical installations inspection and maintenance recommends:

*The inspection and maintenance of installations shall be carried out only by experienced personnel, whose training has included instruction on the various types of protection and installation practices, the requirements of this standard, the relevant national regulations/company rules applicable to the installation and on the general principles of area classification. Appropriate continuing education or training shall be undertaken by personnel on a regular basis. Evidence of the relevant experience and training claimed shall be available.*

## Who needs the training?

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Training offered by the ASE Safety Academy is addressed to staff of various ranks and specialties:

- systems users- working in potentially explosive areas,
- designers - employees of companies that implement systems
- equipment suppliers
- managers - responsible for safety and safety management.

## ASE Safety Academy on the list of IECEx Recognised Training Providers

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The IECEx international certification program is a response to the globalisation trends in industry. It facilitates the free flow of goods and services, while maintaining a high level of explosion safety.

ASE Safety Academy have been reviewed by IECEx and recognised under the IECEx Recognised Training Provider Program as having implemented processes to manage and provide training services related to the selection, performing classification and maintenance of equipment operating in explosive (Ex) atmospheres.

IECEx recommends the ASE Safety Academy, acknowledging it as an IECEx Recognised Training Provider. The international verification body recognised that during the training courses held at the ASE Safety Academy the participants receive the knowledge necessary to obtain the IECEx Certificate of Personnel Competence.

The awarding of Recognised Training Provider (RTP) status to an organisation indicates their commitment to provide relevant training services on the basis that these have been reviewed in accordance with IECEx Operational Document OD 521.

Training organisations interested in seeking IECEx RTP Status should consult IECEx Operational Document OD 521 for details.



## Certificates

After passing a test verifying the understanding of the presented material, each of the course participants will receive a personal certificate of course completion in the Polish and English languages. The certificate confirms employee qualifications as specified in the ATEX Directive and IEC 60079-17 standard.



## Trainings on line

The training can be conducted, using the LiveWebinar webinar tool. Links to the Webinar will be sent to the participants before the training.

No specialized software is required apart from a web browser.

Participants of the training should be equipped with computers with speakers. For better communication, we recommend using computers with a camera and a microphone. Participants without a microphone will also be able to ask questions over the phone.

## Contact

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## Safety of workers in potentially explosive atmospheres

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Description	Basic training for all workers, including basic-level technical workers, operating in potentially explosive zones. It provides the knowledge necessary for understanding the risks caused by explosive atmospheres. The program teaches principles of safe operation of equipment and installations as well as behaviour operating in potentially explosive zones.
Training recipients	Basic and mid-level technical staff engaged in the production process
IECEX competence requirements	Unit 000 – Basic knowledge and awareness to enter a site that includes a classified hazardous area Unit 001 – Apply basic principles of protection in explosive atmospheres (partially)
Tutor	Rafał Sieńko
Scope	<ul style="list-style-type: none"> <li>• Explosion phenomenon, explosive atmospheres.</li> <li>• Material characteristics for gas, vapour and dusts.</li> <li>• Hazardous areas classification.</li> <li>• Identification and classification of ignition sources.</li> <li>• Risk analysis.</li> <li>• Explosion Protection Document for the work places (if we received EPC).</li> <li>• Selection of electrical and non-electrical equipment to hazardous areas. Basic knowledge.</li> </ul>
Duration	1 day, 5 hours

## Maintenance of explosion-proof equipment in gas, liquid vapour and dust explosive atmospheres

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Description	The training focuses on practical aspects for the operation of Ex equipment. Based on the experience of the largest Polish companies and proven service practices. The training participant has the opportunity to learn about the principles of selection, installation, maintenance and inspection of equipment in hazardous areas. The implementation of this training allows to meet the recommendations of the IEC 60079-17, regarding requirements for the competence of personnel in hazardous areas..
Training recipients	Technical staff in workplaces where there are explosive atmospheres, people working in hazardous areas, the person responsible for the installation and maintenance of equipment in hazardous areas.
IECEX competence requirements	Unit 001 – Apply basic principles of protection in explosive atmospheres (partially) Unit 003 – Install explosion-protected equipment and wiring systems Unit 004 – Maintain equipment in explosive atmospheres Unit 007 – Perform visual and close inspection of electrical installations in or associated with explosive atmospheres Unit 008 – Perform detailed inspection of electrical installations in or associated with explosive atmospheres
Tutor	Marcin Chorosz
Scope	<ul style="list-style-type: none"> <li>• Rules to prevent explosions within gas and vapor atmospheres. Analysis of safety. Hazardous area classification. Ignition sources.</li> <li>• The elements of explosion proof equipment.</li> <li>• Examples and descriptions of the explosion proof electrical equipment.</li> <li>• Marking of explosion-protected equipment</li> <li>• Ex protected motors/engines.</li> <li>• Protection systems for Ex motors powered by frequency converters</li> <li>• Grounding in hazardous areas</li> <li>• Lightning protection in hazardous areas</li> <li>• Maintenance - the scope of the inspection and maintenance of Ex-equipment</li> <li>• Carrying out repairs and investments</li> <li>• Safety when carrying out the work in hazardous areas</li> </ul>
Duration	2 days of training, 7 hours each day



## Gaseous and dust explosive atmospheres - classification of explosive atmospheres

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Description	<p>Correct classification of explosion hazard zones has a very serious impact on the safety of the installation. The classification of hazardous areas is a specialized field of safety, increasingly based on complex mathematical models, and changes frequently.</p> <p>The training aims to discuss the principles of classification of explosion hazard zones presented in the IEC 60079-10-1:2021 standard and in others selected standards and codes.</p> <p>An important advantage of the training are the workshops, during which the training group will classify zones for several typical situations.</p>
Training recipients	Technical and technological supervisors, persons participating in the formulation and implementation of work safety regulations for hazardous areas of explosive atmospheres.
IECEx competence requirements	Unit 002 – Perform classification of hazardous area
Tutor	Grzegorz Orlikowski
Scope	<ol style="list-style-type: none"> <li>1. Introduction - technical standards</li> <li>2. Formation of explosive atmospheres</li> <li>3. Material properties of the substance affecting the risk of explosion</li> <li>4. Introduction to the classification of explosion hazard zones</li> <li>5. Standard IEC 60079-10-1:2021 <ol style="list-style-type: none"> <li>a) Scope of the standard and exemptions</li> <li>b) Structure of the standard - division into normative and informational parts</li> <li>c) Concept of a negligible extent zone (NE)</li> <li>d) Principles of classification of explosion hazard zones (diameters of discharge holes, ventilation assessment, determination of the scope of explosion hazard zones)</li> <li>e) Significant changes compared to the 2016 version of the standard.</li> <li>f) Examples of classification of explosion hazard zones</li> </ol> </li> <li>6. Limitations related to the application of the IEC 60079-10-1:2021 standard</li> <li>7. Review of accepted standards and technical codes for the classification of explosion hazard zones</li> <li>8. Standard IEC 60079-10-2:2015: <ol style="list-style-type: none"> <li>a) Scope of the standard and exemptions</li> <li>b) Principles of classification of explosion hazard zones</li> <li>c) Examples of classification of explosion hazard zones</li> </ol> </li> </ol>
Duration	2 days of training, 7 hours each day