

Trainings in SEA Region for IECEx CoPC

Competence of personnel working in explosive atmospheres is necessary. The potential for accidents in Ex areas is increased if personnel are not competent. The need for competence is included in many legal documents (legislation), but is often not clearly defined. Competence includes the ability to carry out specific tasks versus prescribed general requirements specified in regulations and installation procedures.

Competence depends on knowledge, skill, experience and training. Measurement of competence is a difficult task and requires specific assessment methods. Competence evolves with years and may deteriorate, so continued training and assessment is necessary.

Please contact training@rstahl.com.sg for sign up and further information.

Units of Competence	Scope
Unit Ex 001 – Apply basic principles of protection in explosive atmospheres	Competence covers the basic principles of protection in explosive atmospheres of plant and machinery.
Unit Ex 003 – Install explosion-protected equipment and wiring systems	Competence covers the explosion-protection aspects for installing explosion-protected and associated equipment and wiring systems.
Unit Ex 004 – Maintain equipment in explosive atmospheres	Competence covers the explosion-protection aspects for maintaining explosion-protected and associated equipment and wiring systems including plant maintenance schemes.
Unit Ex 006 – Test electrical installations in or associated with explosive atmospheres	Competence covers testing electrical installations for explosive atmosphere.
Unit Ex 007 – Perform visual and close inspection of electrical installations in or associated with explosive atmospheres	Competence covers evaluating the completeness of a hazardous area verification dossier and compliance of the explosion-protected aspects of the electrical installations within the constraints of a visual and close inspection.
Unit Ex 008 – Perform detailed inspection of electrical installations in or associated with explosive atmospheres	Competence covers the explosion-protection aspects of conducting initial, periodic and sample audit inspections of explosion-protected equipment and installation.

IECEX Scheme for Certification of Personnel Competence for Explosive Atmosphere

CoPC Unit Ex 001

In some countries, official proof of the competencies of persons working in explosive area is required.

We therefore offer you a preparatory training followed by an assessment by IECEx recognized CB for the IECEx personnel certification according to Unit Ex 001.

This Unit of Competence covers the basic principles of equipment protection in explosive atmospheres of plant and machinery.

Even though there is no minimum level of technical education applicable for this unit of Competence. However we recommend that persons Competence in this unit shall be assessed in combination with, or after gaining other competence required by a given industry or enterprise for plant or machinery operation or installations, maintenance or service functions for the assessment.

The IECEx personal certification according to Unit Ex 001 is a prerequisite for certification after a few more units.

Objectives.:

- Explosive atmospheres and explosion-protection principles
- Explosive-protected equipment – Ex certification schemes
- Explosive-protected equipment – Principles
- Explosive-protection visual checks
- Types of protection
- Common characteristics of explosion-protection techniques

Additional information.:

- 1.5-days Training
- Training documents
- Certificate of Participation
- 0.5 day assessment and upon successful assessment certification by a recognized IECEx certification body
- Lunch and snacks are included

IECEX Scheme for Certification of Personnel Competence for Explosive Atmosphere

CoPC Unit Ex 003, Ex 004, Ex 006, Ex 007, Ex 008

For further competencies we offer training and assessment for IECEX Units of competence Ex 003, Ex 004, Ex 006, Ex 007 and Ex 008. It is recommended for persons erecting explosion protected installations, maintenance, inspection or parts of it and are required to prove evidence of relevant competencies.

Unit Ex 003 covers the explosion-protection aspects for installing explosion protected and associated equipment and wiring systems. It requires the ability to match equipment with that specified for a given location, work safely, and to installation Standards and complete the necessary installation documentation.

Unit Ex 004 covers maintenance requirements perform in explosive atmospheres and explosive atmosphere management.

Unit Ex 006 covers testing electrical installations for explosive atmospheres. It requires the ability to select, prepare and use appropriate testing devices, work safely and to Standards and to interpret and record test results.

Unit Ex 007 and Unit Ex 008 covers visual, close and detailed inspection of electrical installations in explosive atmospheres.

The applicant shall have the level of technical education (or equivalent) attained, relevant to the application, through documents such as College Certificates and Trade Credentials etc. For an operative, a minimum of 3 years experiences in industrial electrical installations practice as prerequisites for qualification of this unit. For responsible person, a minimum of 3 years experiences in Hazardous Area installation practice relevant to the scope of the unit of competence being applied for taking into account the scope limitation. The assessment consists of a theoretical and a practical part. Competence in this unit shall be assessed either concurrently with or after Unit Ex 001.

Objectives.:

- Explosive atmospheres installation, cable termination techniques
- Explosive atmosphere maintenance work performance, operations reporting work performance (documentation)
- Explosive maintenance requirement and management
- Explosive atmosphere installation testing work performance
- Explosive atmosphere electrical visual and close inspection work performance
- Explosive atmosphere electrical detailed inspection work performance

Additional information.:

- 3 days Training
- Training documents
- Certificate of Participation
- 5 days assessment and upon successful assessment certification by a recognized IECEX certification body
- Lunch and snacks are included

