

## Explosion Protection for users (service, plant planners) (SC-S-EXUS)

---

### Short Description

---

The requirements of the European directives for use in potentially explosive atmospheres are the main topics of the course. On practical examples it will be explained, what users have to consider when facility design, installing, commissioning and maintaining devices, components, device groups and systems, that are partially or completely located in explosive areas.

### Objectives

---

This course teaches you basic knowledge of explosion protection.

### Target Group

---

The course is aimed at participants working in plant planning, installation, commissioning and service.

### Content

---

#### Basics

- Overview types of protection
- Definitions and characteristic quantities
- Marking

#### Requirements for application

- Preconditions for application
- Explosion protection document
- Zone separation
- Device selection

#### Application of equipment

- Flameproof enclosure (Ex d) and increased safety (Ex e)
- Pressurized enclosure (Ex p)
- Intrinsic Safety (Ex i)

#### Exercises

### Prerequisites

---

- Basic knowledge in process analytics
- General knowledge of electrical engineering

### Type

---

Face-to-face training

### Duration

---

3 hours

### Language

---

en