

Strengthen process safety awareness with expert-led training and real-life fire and explosion testing demonstrations

Also available as tailored in-company training.



Process safety awareness course

with live fire and explosion demonstrations

Process Safety Awareness Course

Duration

2 days (plus pre-course e-learning module)

Dates

21-22 October 2026

Location

Gexcon test sites, Sotra, Norway

Price per participant

EUR 2,390 / NOK 27,900

*discounts for multiple participants and Gexcon customers

What's included in the price

- Access to on-demand e-learning module before the 2-day course
- Face-to-face training with process safety experts
- Live fire and explosion demonstrations at Gexcon test sites
- Course materials and digital resources
- Certificate of completion

Additional information

- Lunch and refreshments during training are included in the course fee.
- Participants arrange their own accommodation, transportation, and meals outside training hours.
- Gexcon can help arrange the items listed above upon request.
- We recommend staying at **Panorama Hotel**, located near the training site.

Gain a practical understanding of process safety management through expert-led training and live fire and explosion demonstrations. The course is designed to strengthen process safety awareness, prevent accidents, and improve safety culture.

Overview

This course helps you gain a clear understanding of process safety principles and why they matter, even if you don't have a technical background.

Before the in-person training, each participant completes a short e-learning module at their own pace. During the two-day programme, you will join expert-led sessions and watch live demonstrations of jet fires and gas explosions at Gexcon's specialist test sites.

This mix of theory, real examples, and live demonstrations helps participants see process safety concepts brought to life in a way that is easy to understand and apply.



Live explosion demonstration at the test site



Participants at a previous live demonstration, Gexcon test site Børnesskogen, Norway



Participants at a previous live demonstration, Gexcon test site Steinsland, Norway

Course details

Objectives



By the end of the course, participants will be able to:

- Understand the basics of process safety management and its role in preventing accidents.
- Recognise common causes of fires and explosions and their potential consequences.
- Learn lessons from real incidents and regulatory requirements.
- See first-hand the impact of fires and explosions through live testing demonstrations.
- Gain awareness of preventive measures, mitigation methods, and risk analysis approaches.

Target audience



This course is suitable for both technical and non-technical professionals who need a practical understanding of process safety and its role in managing risk.

- Engineers and technical specialists in design, operations or safety roles
- Managers (e.g., in business units, project management or site operations)
- Onshore and offshore operational personnel
- Regulatory and permitting professionals, from government agencies or internal company compliance teams
- Contract staff, inspectors, auditors and compliance officers

You do not need prior specialist knowledge in process safety to attend.

The course is designed to give both engineers and non-engineers a clear understanding of safety risks and the importance of effective process safety in everyday decision-making.

Benefits



Professional benefits for attendees

By attending this course, you will:

- Improve your ability to identify and understand safety risks in your workplace.
- Build confidence in contributing to a safe work culture.
- Receive a certificate of completion to support your professional development.

Benefits for organisations

Organisations sending participants to this course will benefit by:

- Raising awareness of process safety across all levels of staff.
- Strengthening safety culture by involving non-technical employees.
- Helping managers and administrators make better decisions around risk and safety.
- Reducing the chance of accidents by improving knowledge and awareness.
- Demonstrating commitment to safety and compliance with industry best practices.

Course outline

Pre-training (completed before Day 1)

Duration: 1 hour (self-paced)

- Practical information for participants
- Light introduction to process safety and barrier management

The e-learning can be completed at any time before the training starts.

Day 1 – 09:30 to 16:30

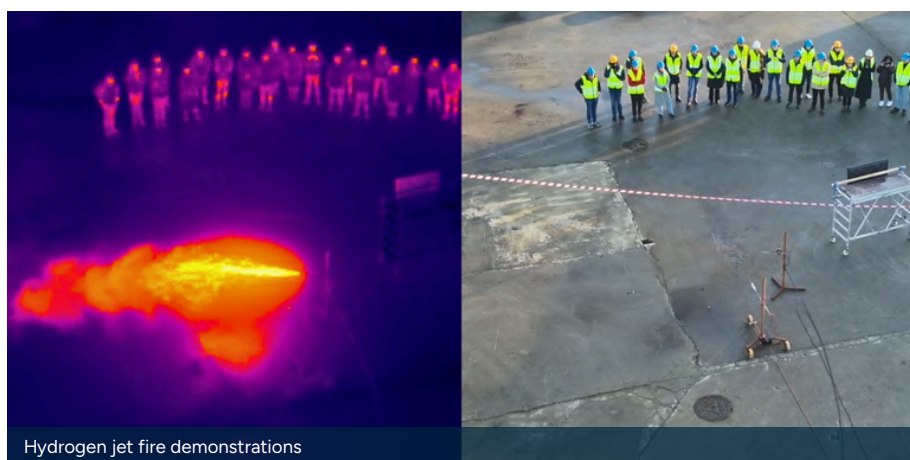
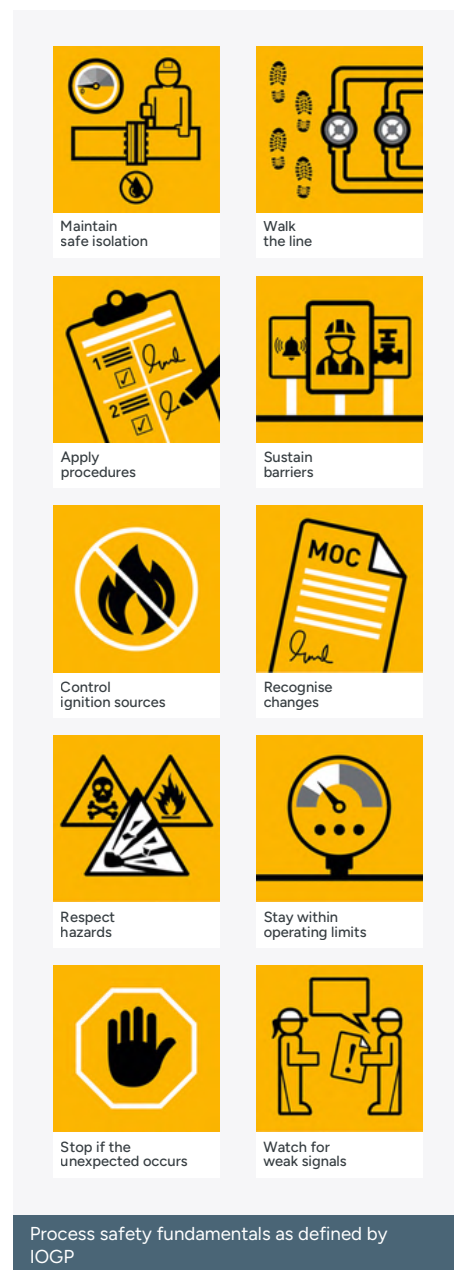
The classroom sessions and demonstrations will be held at the Steinsland test site. Topics and activities include:

- Process safety fundamentals
- Explosion basics – fire and explosion science, deflagration vs. detonation, importance of testing and simulations
- Incident lessons and regulatory requirements
- Propane jet fire demonstration for Passive Fire Protection (PFP) according to the standard
- Hydrogen jet fire demonstration

Day 2 – 09:30 to 16:30

The classroom sessions will be held at the Steinsland test site, while the demonstrations will take place at the Børnesskogen test site. Transport to and from the Børnesskogen test site will be arranged by Gexcon. Topics and activities include:

- Ignition source fundamentals, ignition source mapping, Hazardous Area Classification (HAC), and introduction to mitigation and control systems
- Explosion modelling and analysis
- Hydrocarbon gas explosion demonstrations – open area and complex geometries
- Hydrogen gas explosion demonstration



Prerequisites

No prior technical knowledge is required. The course is designed for both technical and non-technical professionals, including those in management, administrative and communications roles, onshore and offshore operational teams, as well as compliance, auditing, and regulatory functions within companies or government agencies.

Need help or have a question?

Reach out to Cecilie Higratt at cecilie.higratt@gexcon.com or call [+47 917 83 916](tel:+4791783916).



Classroom sessions delivered by Gexcon's experts in process safety and risk management

Important information

If fewer than 10 people register, we may cancel the course up to 2 weeks before the start date.

How to register

Please register on our website via this QR code (scan or click)



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