TRAINING COURSE

Pressure relief

A proven approach.

9th - 11th June 2020 - Edinburgh, MacDonald Holyrood Hotel
22nd - 24th September 2020 - Leeds, Marriott Hotel
24th - 26th November 2020 - Edinburgh, MacDonald Holyrood Hotel
Pressure relief

Are you equipped to deal with the challenges presented by pressure relief?

There is no doubt that engineers are faced with the ever increasing challenges that pressure relief is imposing on our industry today. Without the correct design methods and tools, overcoming these challenges would be virtually impossible.

ABB has designed a course specifically to enhance the skills that you need for sound pressure relief design. With ABB’s extensive experience of pressure relief system design and operation, providing a practical perspective based on real life experience comes naturally.

What the course will cover?
Days 1 and 2 of the course provide a practical approach to all of the key steps needed to design and maintain relief systems. The 3rd day covers some more complex and advanced topics.

Who will benefit and what will they gain?
The course is aimed at everyone involved in the design and operation of relief systems. Following the course you will be able to:

- Improve your company’s overall business safety and environmental performance
- Get pressure relief design right first time and avoid costly mistakes
- Discover the potential cost effective alternatives to pressure relief
- Master a structured approach to pressure relief

Course tutors
Chris Flower is a chemical engineering specialist for ABB with over 15 years of process engineering experience. Throughout his career Chris has been involved in pressure relief be it, designing new systems, reviewing existing systems or validating systems designed by others across the whole range of process industry sectors. Chris has lead the pressure relief course for more than 7 years training over 100 delegates a year.

Price
IChemE Member: £1890 + VAT
Non-Member: £1990 + VAT
# Day one agenda*

- **Background to pressure relief**
  - What is pressure relief and why use it?
  - Approach to pressure relief design
  - Pressure relief and the design process
- **Identification of relief events**
  - Identification of events leading to excessive pressure and vacuum
- **Calculation of the required relief rate**
  - External fire
  - Flow from high pressure source
  - Heat and energy input from associated equipment
- **Discharge and disposal**
  - Discharge and disposal of vented material

## Day two agenda*

- **Relief device hardware**
  - Anatomy of a safety valve
  - Bursting disc hardware
- **Relief system sizing**
  - Safety valve sizing
  - Design criteria for relief systems
- **Installation, inspection and maintenance**
  - Relief system documentation
  - Installation of pressure relief devices
- **Pressure relief codes and legislation**
  - Pressure relief codes and legislation

## Day three agenda*

- **Chemical reaction hazards**
  - Developing a basis of safety for chemical reaction hazards
- **Blowdown and flares**
  - Blowdown and flares
- **Two phase flow**
  - Two phase flow design principles
  - Two phase flow and DIERS method
- **Low pressure tanks**
  - Venting of low pressure tanks
  - Low pressure tank relief devices

*ABB reserve the right to amend the agenda.

---

**How to book**

Web: [www.abb.com/uk/consulting/training](http://www.abb.com/uk/consulting/training)

Email: jackie.kendall@gb.abb.com

Phone: Call Jackie Kendall on +44 (0)1642 372121