
TRAINING COURSE

Essentials of pressure systems

This course aims to provide a basic understanding of the essential elements of pressure systems, some of the problems encountered and how to avoid them.

[12-13 September 2023 - Warrington, ABB Office](#)



Essentials of pressure systems

This course aims to provide a basic understanding of the essential elements of pressure systems, some of the problems encountered and how to avoid them.

The course covers the typical causes of failure of pressure equipment and provides an overview of the UK legislative framework relating to pressure systems.

What the course will cover

An introduction to the main topics relating to Pressure Systems, which include:

- Legislation
- Pressure systems' management
- Vessels and low pressure storage tanks
- Piping components
- Valves and steam trapping
- Supports
- Quality control
- Pressure testing
- Pressure relief
- Deterioration mechanisms

Topics are covered by discussion, case studies of real incidents and syndicate exercises. An emphasis is on practical issues relating to pressure systems which improves retention and interest by delegates.

Duration

2 days

Price

£1460 + VAT

Who will benefit and what will they gain

This course is aimed at participants of all backgrounds, who require an introduction to or a refresher of the essential elements of pressure systems. The course would be particularly beneficial to engineers and managers in design, construction, operations and maintenance, seeking an appreciation of pressure systems.

Training method

Our style of training is to encourage participation in the discussions and to use case studies to share experiences, broadening the delegate's knowledge of the topics.

On completion you should have:

- An understanding of the statutory requirements and industry good practice for safe and reliable design and operation of pressurised equipment
- An awareness of the problems that can occur with pressure systems and how to prevent them
- An understanding of the typical causes of failure of pressure equipment

Delegate feedback

"Excellent background information will be very useful to a process engineer talking to mechanical engineers."

"Everything very useful, I picked up valuable information I will use back on site."

"Excellent introduction very good set of course notes."

Course tutors

Graham Harvey is an Asset Integrity Specialist responsible for delivery of integrity management studies and strategies, including asset life extension studies at on and off-shore oil and gas facilities, chemical and pharmaceutical plants. This includes conducting due diligence studies on high hazard processes, development of integrity management procedures and audit protocols. Graham has 39 years of operational experience gained in oil and gas, petrochemicals & plastics, and food processing industries, many of which were high hazard top-tier COMAH facilities.

Dave Burgess is the Technical Lead for ABB's Inspection Services Division and is a Chartered Mechanical Engineer. Responsibilities include Technical, Integrity Management and Compliance support to Clients and ABB Inspection Engineers, Training Manager for ABB Inspection Services and RBI Team Leader for ABB's RBI+© pRIME Risk Based Inspection process. Prior to joining ABB, Dave has over 25 years of experience in the Major Hazards Manufacturing and Process Industry, with Responsibilities in Asset Maintenance Management, Integrity and Reliability Management, Project Management and Static Equipment Design.

This course meets the requirements of Continuing Professional Development (CPD).

Agenda

Pressure systems overview	Deterioration mechanisms
Pressure systems management including legislation	Valves
Pipes and components	Stream trapping
Quality control and testing	Pipe protection
Pipe joints	Pressure relief
Vessels and heat exchangers	Pipe supports
Low pressure storage tanks	

ABB reserve the right to amend the course agenda.

The following companion courses are also available:

[Design and operation of piping systems](#)

This training course explains why it is necessary to pay attention to piping systems at all stages throughout their life to prevent loss of containment and maintain a licence to operate.

[Asset integrity management](#)

This course provides an understanding of significant deterioration mechanisms that can affect pressure systems and how to detect and discharge them.

How to book

Web: www.abb.com/uk/consulting/training

Email: jackie.kendall@gb.abb.com

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

ABB Limited

Daresbury Park
Daresbury
Warrington
Cheshire
WA4 4BT
United Kingdom
Phone: +44 (0)1925 741111
E-Mail: contact@gb.abb.com

ABB Limited

Pavilion 9
Byland Way
Belasis Business Park
Billingham
Cleveland
TS23 4EB
United Kingdom
Phone: +44 (0)1642 372000
E-Mail: contact@gb.abb.com

abb.com

ABB Limited

Hareness Road
Altens Industrial Estate
Aberdeen
AB12 3LE
United Kingdom
Phone: +44 (0)1224 592123
E-Mail: contact@gb.abb.com

ABB Limited

The Deep Business Centre
Tower Street
Hull
HU1 4BG
United Kingdom
Phone: +44 (0)1482 481160
E-Mail: contact@gb.abb.com

ABB Limited

The Shearer Building
Earls Road
Grangemouth
Stirlingshire
FK3 8XG
United Kingdom
Phone: +44 (0)1324 494406
E-Mail: contact@gb.abb.com

