

# ABB University training courses for Oil and Gas

## Comprehensive performance-based training

In the UK ABB University provides a wide range of training to complement ABB's products, solutions and services to help realise optimum plant performance and efficiency.

### ABB University, who we are and what we do

ABB University is a business spanning all divisions of ABB internationally; over 100 training centres are supported by a global management team.

The UK business is based in Stone, Staffordshire, and is the organisation that unifies all training activities run by ABB across the UK. It supports other ABB training centres based at Bristol, Stonehouse, Milton Keynes, Billingham, St Neots, Aberdeen and Daresbury.

One of ABB's greatest strengths is its ability to offer its customers the broadest possible range of industrial products, services and systems, supported by basic training through to tailored courses specific to customer projects.

To help realise optimum plant performance and efficiency, ABB University provides comprehensive performance-based training programs for engineering, operation and maintenance as well as service and commissioning personnel.

### The benefits of ABB training

All industries face a common goal; maximizing production output at the lowest possible cost, while maintaining the highest quality end product. Whilst striving to achieve this goal, businesses face:

- Increasing demands for higher reliability
- Escalating operational and capital expenditure associated with running a plant or process
- Rising energy prices
- Pressures to improve productivity
- Stricter environmental and safety regulations

It is with these challenges in mind that ABB University structures its courses. Ensuring attendees acquire the skills necessary to achieve performance targets whilst considering these wider issues.



Should a customised program be required, initial discussions will address the following key points:

- Detailed assessment of training needs;
- Evaluation of current knowledge;
- Analysis of the gap between what is known and what needs to be known;
- Actual content of the training scheme for each group;
- Timetable for action;
- Timetable for measurement of the effects of training and the methods to be used to assess such affects.

### Recent client list

ConocoPhillips (UK) Ltd
Britoil Public Limited Company
Centrica Storage Limited
Maersk Oil North Sea UK Limited
National Grid Gas Plc
Stena Drilling Limited
BG Group
E.ON UK Plc
Statoil ASA
E.ON New Build and Technology Limited
Storengy UK Limited
ConocoPhillips Petroleum Co (UK) Ltd
Statoil Petroleum AS
Shell E&P Ireland Limited
Petrofac Training Limited

## What courses and training are available?

The ABB University is currently expanding its range of courses. This allows users to optimise the efficiencies they can realise with the solutions. Shorter practical courses are available to showcase ABB products as used in real applications.

There are many courses available covering the following general areas:

### Operator training/familiarisation



Structured 2 day instructor-led session; delivered on basic simulation of production ICSS (typically post-FAT configuration). This allows operations staff to navigate operator

workplace, gaining familiarity with graphic displays, alarm system, SIS, historical data (trends), device faceplates, sequence control, basic system diagnostics.

### Maintenance technician/engineer training

Structured 5 day instructor-led session; covering navigation of application software and operator workplace. This gives participants knowledge to chase signals from HMI faceplate to I/O terminals, perform basic software modifications, use diagnostic features of engineering tool and operator workplace.

### Engineer training

Typically 5-10 days instructor-led; production of application software and configuration of controllers, set-up and configuration of alarm system, historical data logging, creation of graphic displays, elements and faceplates, importing & exporting data, system backup and restore, user security.



### Online e-learning courses



Targeting above functions; feature content of instructor-led training and competency assessments - intended to be taken as refresher courses or before first instructor-led session. Results of quizzes are stored in each individual's training record with a certificate issued on satisfactory completion of training and assessment modules.

### Training system

Small 800xA training system, which can be used for refresher training or the introduction of new-starts.

Can be loaded with a copy of the production system to allow navigation of graphic displays, and also a training application so classroom exercises can be revisited. Technology featured will match equipment on production system, allowing maintenance staff to gain familiarity with components in a safe environment, which can also be used for development/improvement activities.

Training system can also host, hot spares' and provides a separate 800xA system for updating firmware and validating upgraded software components prior to implementation.



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