

# Totalflow Upstream Oil & Gas Solutions XSeries Well Production

## Course description

This new course is designed to demonstrate all of the applications and procedures found in today's upstream oil and gas industry into one exciting, hands-on course. This course will introduce the participant to the AGA and API standards related to flow measurement, and how those standards are reflected in the Totalflow product line. Participants will experience the Totalflow solutions for production decline management due to liquid loading. The students will turn on and configure the needed applications in the XFC Flow Computer for control such as plunger, chemical injection, gas lift and PID controller.

## Participant profile

This course is recommended for attendance by automation technicians, I&E technicians, facilities engineers, facilities operators, lease operators (pumper), plant coordinators, procurement coordinators, production coordinators, production technicians, and technical services maintenance coordinators.

## Learning objectives

Upon completion of this course, the participants will be able to:

- Identify hardware components
- Use PCCU32 software for basic meter setup, adding and properly setting up the ABB Plunger Application, Chemical Injection Application, Gas Lift Application, calibration of the Analog Inputs (AI), monitoring of tubing and casing pressure, configuring the different TFIO modules and the Proportional-Integral-Derivative (PID) Controller
- Set up various methods of local communication
- Manage configuration files, 32-Bit Loader, and Save and Restore Functions
- Set up data trending, modify unit display, and set up of complex operations for pump off control.

## Course type and methods

This is an instructor-led course with interactive classroom discussions, presentations, and practical exercises. At least 50% of this course is hands-on operation and lab activities.



## Topics

- Meter set up and operation
- Collecting and saving data
- Save and Restore
- 32-Bit Loader
- Trending
- TFIO Modules
- Applications
- Unit display
- Remote and local communications
- MODBUS® communications
- PCCU software setup
- Screen save
- Operations
  - Plunger Lift
  - Chemical Injection
  - Gas Lift
- Alarm System
- Safety Shutdown System
- Troubleshooting

## Duration

The duration is 3 days – 8:30 a.m. to 4:30 p.m. each day.

## Prerequisites

Students attending this course should have previously attended the Z900 Flow Computer Measurement course.

Date	Location	Date	Location
01/26/16	Pleasanton, TX	07/12/16	Odessa, TX
02/09/16	Bartlesville, OK	07/19/16	Bismarck, ND
03/15/16	Odessa, TX	08/16/16	Bartlesville, OK
03/22/16	Bakersfield, CA	09/13/16	Natrona Heights, PA
05/24/16	Natrona Heights, PA	09/27/16	Bakersfield, CA
06/07/16	Pleasanton, TX	10/25/16	Pleasanton, TX
06/21/16	Liberal, KS	11/15/16	Odessa, TX

### ABB Inc.

#### Upstream Oil & Gas

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