Totalflow Upstream Oil & Gas Solutions
Flow Computer Measurement

Course description

This new course has combined all of the aspects of flow measurement 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 flow measurement from unpacking the Totalflow XFC Flow Computer, to proper installation of the flow computer and other measurement devices, to calibrating single and multiple AGA-3 measurement tubes, saving station files, and putting the XFC flow computer into service.

Participant profile

This course is recommended for attendance by facilities engineers, facilities operators, field operations leaders, gas balancing analysts, lease operators (pumpers), 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 set up, implementation of flow calculations, applications, calibration, reporting, data collection, and remote communications
– Set up single AGA-3 measurement tube
– Set up multiple AGA-3 measurement tubes using multivariables (XMV's)
– Set up AGA-7 pulse measurement
– 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 basic math operations

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.

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Topics

– Measurement set up and operation
– Collecting and saving data
– Save and Restore
– 32-Bit Loader
– Reporting
– Calibration
– Unit display
– Remote and local communication
– MODBUS® communications
– PCCU software setup
– Screen save
– Laptop file utilities
– AGA-3 single and multiple tube setup
– AGA-7 tube setup
– Math operations
– Sampler setup using DO
– Trending
– Troubleshooting
– Valve control

Duration

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

Prerequisites

Students attending this course should have basic knowledge of gas measurement and proficient computer skills.

Date	Location	Date	Location
01/12/16	Pleasanton, TX	06/28/16	Bartlesville, OK
01/19/16	Bartlesville, OK	07/12/16	Bismarck, ND
01/26/16	Odessa, TX	08/23/16	Natrona Heights, PA
02/23/16	Bakersfield, CA	08/30/16	Bakersfield, CA
03/29/16	Natrona Heights, PA	09/27/16	Pleasanton, TX
05/03/16	Pleasanton, TX	10/11/16	Odessa, TX
05/24/16	Liberal, KS	10/25/16	Liberal, KS
06/07/16	Odessa, TX	11/29/16	Bartlesville, OK

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