



Course Number:	BUTM & PROCESSGAS
Course Name:	Ultrasonic Training for GE Panametrics XGM868 & GM868 for Process Applications
Course Cost:	1 – 2 students/company ... \$400.00 each 3 – 5 students/company ... \$300.00 each 6+ students/company ... \$250.00 each
Maximum Students:	10
Course Duration:	7 hours (1 day)

Professional Development Credits: YES (1 credit for each hour of duration)

Course Description:

This course introduces participants to Basic Ultrasonic Theory Module (**BUTM**) combined with Process Gas Modules (**PROCESSGAS**) with specific focus on the GE Panametrics XGM868 (transmitter) and GM868 (console) Flowmeters. Course modules are designed to provide participants with a basic overview of Ultrasonic Theory and specific working knowledge of the XGM868 & GM868 Flowmeters for process applications. Participants will be provided with notes covering the entire course, equipment manual(s), and a certificate of attendance. Note that there are applicable PD credits on completion of this course.

BUTM – Basic Ultrasonic Theory Module

- Ultrasonic Theory
 - Terms and Definitions of Ultrasonic Theory
 - How Ultrasound is produced
- Ultrasonic Transit-Time Flowmeter Theory
 - What is the Doppler Effect?
 - What is Transit-Time?
 - What is flow measurement and how do we obtain it?
 - Effects of fluid dynamics on accuracy and performance.

PROCESSGAS - Process Gas Module with focus on GE Panametrics Models XGM868 & GM868 for Process Applications

- Flowmeter Training
 - Basic components required
 - Application considerations
 - Flowmeter diagnostics
 - Hands-on training
 - Configuration
 - Major Components
 - Disassembly / Assembly
 - Failures of components
 - Flowmeter fault conditions