

**Regulator Technologies, Regulators & Gas Control** No other natural gas regulator manufacturer in the world offers more products and local services dedicated to safe, effective applications than Emerson Regulator Technologies. We have assumed the mantle of leadership in training the personnel of gas production, storage, pipeline, and distribution companies. Several courses covering the installation, troubleshooting, and adjustment of gas regulators and relief valves are available for gas regulator technicians at Regional Training Centers. Managers, engineers and technicians may wish to consider the Annual Gas Control Conferences. This 3-1/2 day event includes information from sizing and selection to troubleshooting.

**Gas Regulator Technician**

**Course 1100 CEUs: 2.1**

**Overview**

This 3-day course is designed primarily for technicians responsible for the installation and maintenance of regulators and relief valves. Emphasizing hands-on training, this course teaches students to install, troubleshoot, and adjust gas regulators and relief valves. Students who complete this course will be able to:

- perform maintenance on regulators and relief valves
- troubleshoot field problems

**Prerequisites**

At least one year field experience with gas regulators is recommended.

**Topics**

- Self-Operated Regulators
- Pilot-Operated Regulators
- Overpressure Protection
  - Series Regulation
  - Monitors
  - Slam Shut Options
  - Relief Valves
- Regulator Failure Analysis
- Troubleshooting

**Price** \$1,900

**Location** Marshalltown, IA      **Start Date 2012** 1/17, 3/20, 6/5, 8/14, 10/16



**Gas Regulator Troubleshooting**

**Course 1106 CEUs: 2.1**

This course is designed primarily for technicians with responsibility for installing, maintaining and troubleshooting gas regulators.

**Overview**

This 3-day course provides intensive hands-on training using the same regulators that are commonly used in the field. Actual gas regulator problems are simulated in the workshops, challenging the student to efficiently diagnose problems and restore the regulator to proper operation. Students who complete this course will:

- efficiently and safely troubleshoot common regulator operational performance problems
- understand the influence of the service environment on regulator performance
- understand the importance of correct installation procedures
- understand the role of correct sizing as it impacts regulator performance
- perform maintenance on regulators and relief valves
- troubleshoot field problems

**Prerequisites**

Gas Regulator Technician, Course 1100, or 2 years experience with regulators.

**Topics**

- Review Self and Pilot Operated Regulators Operating Principles
- Regulator Sizing Procedures
- Installation Practices
- Regulator Failure Analysis
- Regulator Stability
- Regulator Troubleshooting Principles and Procedures

**Price** \$1,900

**Location** Marshalltown, IA      **Start Date 2012** 2/21, 5/8, 6/26, 11/27

**Gas Control Conference**

**Course 8000 CEUs: 2.5**

This conference is for those responsible for the selection, application and operation of regulators in the natural gas industry.

**Overview** This 3-1/2 day conference demonstrates the fundamentals of natural gas regulators in gas pressure control. This course emphasizes natural gas distribution and also covers natural gas transmission. Students who complete this conference will be able to:

- evaluate the difference between direct-operated and pilot-operated regulators
- evaluate the different methods of overpressure protection
- properly size regulators and relief valves for natural gas applications
- troubleshoot a wide variety of regulator types (Fisher products are used for general troubleshooting theory)

**Prerequisites** At least one year's experience in the field of natural gas regulators is recommended.

**Topics**

- Monitor Applications
  - Noise
  - Overpressure Protection
  - Pilot-Operated Regulators
  - Pressure Factor Measurement
  - Regulator Failure Analysis
  - Regulator Selection
  - Regulator Sizing
  - Regulator Stability
  - Self-Operated Regulators
  - Troubleshooting—Regulator Olympics\*
- Department of Transportation (DOT) / Traffic Safety Institute (TSI) guest speakers provide guidelines and lead discussions on various design, operating, and maintenance requirements (49CFR192) as they apply to natural gas regulators.**

**Price** \$1,500

**Location** McKinney, TX      **Start Date 2012** 4/23, 10/15

\*The Regulator Olympics divides the class members into teams to participate in troubleshooting regulators—diagnosing district station problems, changing monitor modes, and working on commercial service regulators.

**To enroll in Regulators and Gas Control courses please call 800-338-8158 or 641-754-3771. For additional contact information refer to the appropriate contact on page 107. Updated dates & locations are available on our website at [www.emersonprocess.com/education](http://www.emersonprocess.com/education).**