

SWAGELOK TRAINING & EDUCATION

Swagelok's training and education programs provide our customers with a range of valuable and practical tools for meeting day-to-day challenges and keeping up with the latest fluid system technologies. With in-depth courses taught by experienced instructors, Swagelok offers a variety of training and education programs to help enhance your team's fluid systems expertise.



TUBE FITTING
INSTALLATION



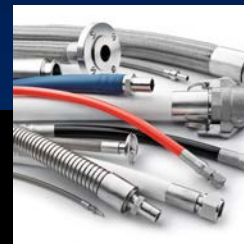
VALVE
SELECTION
AND
INSTALLATION



REGULATOR
SELECTION
AND SIZING



ORBITAL
WELDING



HOSE
ESSENTIALS



NORDIVAL SRL
Swagelok Italia

Swagelok Italia - Swagelok Balkans - Swagelok Greece - Swagelok Hungary - Swagelok Romania - Swagelok Turkey



Swagelok Tube Fitting Installation and Safety Seminar - 8 Hour Class

This full-day seminar conducted by our Swagelok® Certified Training Team is designed for those involved in the installation, design, and/or fabrication of fluid systems. Quality control and safety professionals will gain insight into component limitations and maintenance requirements.

Course Outline:

- Tube fitting design and function and how fitting design changes have impacted seal performance
- Installation and assembly instructions designed to assure leak-free operation
- Understanding the importance of proper selection, care, handling, and prep of tubing and pipe
- Thread I.D. of: ISO, SAE, NPT, and Metric Threads, conversion fittings and hands-on exercises
- Practice the “measure-bend method” through hands-on exercises using Swagelok Hand Tube Bender
- Demonstrate tube bending concepts necessary to complete quality 45°, 90°, 180° and offset bends
- Identify common tube bend defects
- Labor saving techniques and fitting products that make your job easier



Valve Selection and Installation - 4+4 Hour Class

Selecting the right valve for an application is critical for system performance. With a wide range of selection criteria, this is not always an easy job. Valve function along with system pressure, temperature and media are common selection factors, but there are also many others. Environmental factors, system flow and end connections are just a few other selection criteria needed to select the right valve for any system. Installation and maintenance largely determine how well they do their job – and how long. If valve performance is important in your work, this course offers valuable insight into maximizing valve life and performance.

Course Outline:

- 5 Types of Valve Operation
- System Parameters and Selection Factors
- Valves by Type
- Valve Sizing
- Materials of Construction and System Compatibility
- Compliance with specs and codes
- Actuator and Valve Options
- Installation and Maintenance



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Pressure Regulator Selection and Sizing - 4 Hour Class

What is a Pressure Regulator?

“A Pressure Regulator is a mechanical device designed to regulate system flow pressure in response to upstream or downstream pressure changes”

Understand functions, discuss ways of improving performance and combatting undesirable effects

Course Outline:

- Pressure Reducing Regulators and Back Pressure
- Basics Theory
- Performance Criteria (Terms and Definitions)
- Effects on Performance
- Sizing and Flow Curves
- Troubleshooting



Swagelok Local Orbital Welding Training - 2 Days

Orbital welding provides repeatable excellence with each weld. This training provides instruction on the fundamentals and benefits of orbital welding. Learners gain knowledge on equipment setup and operation in order to use our Orbital Welder rental.

Course Outline:

- Learn orbital welding principles and set up
- Run and troubleshoot an orbital welding system
- Learn how to operate the Swagelok Welding System



Hose Essential - 4 Hour Class

To provide delegates with an awareness of hose and flexible tubing construction, components, identification, selection and installation best practices. The course covers inspection practices in line with the energy institute guidelines.

Course Outline:

- Hose and flexible tubing construction
- The components of a hose assembly
- Hose assembly identification
- Hose selection considerations
- Hose inspection considerations
- Trouble-shooting and examples of bad practice
- Hose installation and inspection practical activity in line with industry guidelines



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Swagelok Global Training Programs

WORK SAFER & SMARTER



PROCESS ANALYZER SAMPLING SYSTEMS (PASS)

Improve process accuracy and optimize analyzer performance by:

- Recognizing and diagnosing sample transport problems
- Calculating pressure drop in a fast loop or return line
- Preventing or controlling phase separation
- Reading and creating sample system schematics
- Designing and building your own sample system

This class is appropriate for: Engineers, Chemists, Technicians, or those involved in the design, building, operation, or maintenance of process analyzer sample systems.

Class duration: 5 days



PASS - SUBSYSTEMS

Improve analyzer system reliability by:

- Differentiating among the functions that a sample system performs
- Using each function within the sample system to achieve best performance
- Creating reliable sample systems
- Analyzing a complex system to understand it better
- Troubleshooting problem designs in the field or on the drawing board

This class is appropriate for: Engineers, Chemists, Technicians, or those involved in the design, building, operation, or maintenance of process analyzer sample systems.

Class duration: 5 days

If you are interested in learning more about our wide variety of training courses offered and the various packages available to you, contact us.



NORDIVAL SRL - Swagelok Italia

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