



Swagelok Allentown
Authorized Sales and Service Center

LOCAL TECHNICAL TRAINING

<https://Allentown.Swagelok.com>

SWAGELOK ALLENTOWN TRAINING AT A GLANCE

Swagelok Allentown Training Courses provide critical skills for developing, building, and maintaining dependable fluid systems. Taught by Swagelok-certified trainers at locations and times convenient to you, these courses provide a strong foundation of knowledge and the techniques behind fluid component systems. Invest in your team today and boost their safety, productivity, and efficiency! Courses include:

- Tube Fitting Installation Essentials
- Tube Fitting Installation Inspection Essentials
 - Valve Essentials
 - Hose Essentials
- Tube Bending Essentials
- Medium/High Pressure Cone & Thread Essentials
 - Regulator Essentials
 - And More...





THE BENEFITS OF SWAGELOK ALLENTOWN TRAINING COURSES

Training helps employees acquire new skills and knowledge to perform their job better, increasing job satisfaction, loyalty, and retention. Companies that equip their employees with the opportunity to learn and advance their careers, report greater productivity, workplace safety, and motivation, leading to better and faster business results.

Swagelok Allentown Training Courses provide a range of valuable and practical tools for meeting day-to-day challenges and keeping up with the latest fluid system technologies. Swagelok Allentown Training equips your team to work safer and smarter.



Swagelok Allentown Essentials Training Courses

Tube Fitting Installation Essentials

Course take-aways:

- How to correctly and safely assemble a Swagelok tube fitting
- How to select, handle, prepare, cut, and debur tubing
- How to identify thread types
- How to properly prepare threaded installations
- How to gauge a tube fitting assembly
- How to virtually eliminate leakage
- Why intermixing/interchanging hardware from different manufacturers is not recommended

Content includes:

- Tubing systems
- Tube preparation and installing the Swagelok tube fitting
- Leakage
- Tube fitting history
- Ferrule-type tube fitting design characteristics
- The Swagelok Advantage
- Interchange and intermix
- Tapered and parallel threads
- Adapter fittings with parallel threads
- Tube adapter connections and machined ferrule connections

Tube Fitting Installation Inspection Essentials

Course take-aways:

- How to spot common connection errors that cause leakage
- How to identify mixed-material tube fittings
- How to validate correct pipe thread usage and assembly
- Proper tube system design practices
- Tube selection variables
- How to properly and safely install Swagelok tube fittings

Content includes:

- Most common errors leading to tube fitting leakage
- Keys to inspection
- Tubing selection and specification
- Tube marking and other tube inspection variables
- Tube system design
- Tube handling and supports
- Tube bending defects
- Manual tube fitting installation up to 1 inch
- Tube fitting inspection without disassembly; tube fitting inspection including disassembly
- Pipe thread inspection and tapered thread installation

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Swagelok Allentown Essentials Training Courses

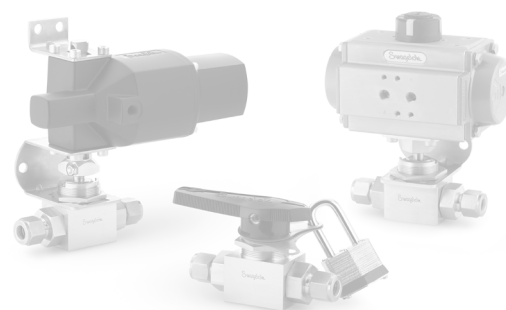
Valve Essentials

Course take-aways:

- How to safely choose, install, and maintain valves
- Common fluid system terminology
- Differences in valve types, functions, construction, and operation
- How to interpret a flow curve and pressure/temperature table
- Selecting the optimum valve for your applications
- How to install, repair, maintain, and troubleshoot valves
- Levels of leakage and how to improve site efficiency

Content includes:

- Fluid system safety overview
- Piping and instrumentation diagrams
- Valve functions
- Ball valves; on/off valves; needle valves
- Flow control
- System considerations
- Valve selection criteria
- Preventative maintenance
- Valve replacement and repair recommendations
- Valve failure modes



Hose Essentials

Course take-aways:

- Common hose terminology
- Hose construction and application variables
- How to evaluate hose fit for purpose
- Hose selection variables
- Hose installation guidelines
- Common issues in hose applications

Content includes:

- When to use hose and when to avoid using it
- Common practices for conducting hose inspections
- Best practices for preventative maintenance
- Covers and tags
- End connections
- Hose storage and cleaning
- Hose inspection survey and frequency
- Hose length considerations



Interested in hosting Swagelok Allentown Training Courses at your facility? Contact us for more information.

Swagelok Allentown Essentials Training Courses

Tube Bending Essentials

Course take-aways:

- The basic theory/practice/concepts of tube bending
- The measure-mark-bend method of tube bending
- How to use the Swagelok hand tube bender
- The tube bending concepts necessary to complete quality 45°, 90°, 180°, and offset bends

Content includes:

- Tube preparation
- Hand tube bender components
- Hand tube bender operating instructions
- Long handle
- Loading the bender
- Positioning the tube for changes in direction
- Making bends 90° or less / making bends greater than 90°
- Tube bending variables
- Bend layout using the measure-bend method
- Understanding the relationship between 45° and 90° angles

Medium/High Pressure Cone & Thread Essentials

Course take-aways:

- Applications for working pressure of 20,000 psig up to 60,000 psig
- The difference between medium- and high-pressure products and their respective systems
- How to enable safe, optimal performance of cone and thread fittings in medium and high pressure systems
- Foundational knowledge in cone and thread preparation and installation
- Common risks and challenges in high-risk and high-vibration environments
- Maintaining cone and thread systems
- How to eliminate downtime due to leaks with safe, reliable, efficient leak-tight protection

Content includes:

- How medium- and high-pressure products are engineered to help you do more
- The simple two-piece design of Swagelok medium-pressure tube fittings and adapters
- How Swagelok's patented technology saves both time and money
- Swagelok's medium- and high-pressure valves, fittings, adapters, couplings, tubing, and other fluid-control components
- Current use of Swagelok's medium- and high-pressure products in various applications
- Relationship between quality manufacturing and safety in the workplace
- Practical examples of coning and threading with emphasis on use of the manual coning and threading tool

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Swagelok Allentown Essentials & More Training Courses

Regulator Essentials

Course take-aways:

- Common regulator terminology
- Fluid system design principles
- Regulator selection strategy for safe fluid system operation

Content includes:

- Back-pressure and pressure-reducing models
- Spring-, dome-, and air-loaded models
- Vaporizing models
- Gas cylinder changeover models
- Learn how to manage a pressure regulator's supply pressure effect
- Generate unique flow curves for RHPS series regulators
- Learn how to maximize sampling system uptime and minimize disruption
- Various configurations that maintain pressure and minimize droop



Orbital Welder Intro Training

Course take-aways:

- Setting up an orbital welding system
- Operating an orbital welding system
- Safety precautions

Content includes:

- Troubleshooting for frequently encountered welding problems
- An emphasis on operational issues
- Preventative maintenance
- Hands-on experience



Swagelok Tube Fitting and VCR Face Seal Fitting Installation

Course take-aways:

- Features and benefits of VCR end fittings
- Installation practices and safety precautions

Content includes:

- Low-clearance and high purity installation
- Proper installation of end fittings
- Practical assembly installation exercises
- How to troubleshoot in the field



All Swagelok Allentown Training Courses can be held at our location
or at your facility. Contact us for more information.

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Additional Training

Swagelok VCR and VCO Face Seal Fitting Installation

Course take-aways:

- Features and benefits of VCR and VCO end fittings
- Installation practices
- Temperature limitations
- Safety precautions

Content includes:

- O-ring and gasket sealing technology
- Compatibility of mechanical threads
- Low-clearance and high purity installation
- Proper installation of end fittings
- Practical assembly installation exercises
- How to troubleshoot in the field



SWAGELOK ALLENTOWN

Swagelok Allentown is dedicated to understanding your challenges and is committed to providing solutions to ease the pressure of building safe and reliable fluid systems.

We are the authorized sales and service center for eastern and central Pennsylvania. We provide our customers with high quality Swagelok® products as well as many services, such as custom solutions, assemblies, hose management, onsite inspections, energy surveys, tool rentals, training, and more. Our Field Engineering Services team is also available for consultation.

Our experienced evaluation and advisory experts will visit your facility and evaluate your systems and advise on enhancements that will improve your operations. Whether you need a total system check or an energy emissions analysis, our experts will deliver a detailed report and recommend solutions tailored to your fluid system applications and challenges.



Warranty Information:

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit Swagelok.com or contact your authorized Swagelok representative, listed here.

Safe Product Selection:

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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