



People are Talking about Us.

Recent **Swagelok Pittsburgh | Tri-State Area** Technical Training class graduates have had plenty to say:

"Your instructor held my interest the entire day."

"The hands-on tube-bending practice — plus the instructor's willingness to thoroughly answer our real-world application questions — was worth the price alone."

"I took away so much from the Essentials class that I plan to enroll in your next Advanced Bending multi-day course."

"The general course information combined with the hands-on mechanical skills refresher was powerful."

"What I learned about making better and neater parallel tubing runs was exceptionally helpful."

"I learned different bending techniques that will be extremely valuable in my job."

"I loved your hands-on teaching approach!"

Join the conversation!

Swagelok®

Swagelok Pittsburgh | Tri-State Area

- All Swagelok Pittsburgh | Tri-State Area-led classes can be conducted **at your facility or jobsite**.
- We also deliver our training routinely at our **Training Center** in Pittsburgh.
- We can **start/stop** at your hours of operation or convenience.
- Instruction can be spread over **multiple** sessions.
- Our training counts toward **Continuing Education** credits.

Let your local Swagelok Pittsburgh | Tri-State Area Strategic Support Services Team save you considerable Fluid-System time, money, and worry!

To schedule your Swagelok Training event, contact:

P: 412.439.1706 or 412.761.9463 X130

 pittsburgh.swagelok.com

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 Swagelok Pittsburgh | Tri-State Area



Swagelok®

Swagelok Pittsburgh | Tri-State Area

OPTIMIZING YOUR SITE SAFETY & PERFORMANCE

Your Local Swagelok Fluid-System Solutions Provider Delivers Technical Training:

- **Tube Fitting Installation & Tube Bending Essentials**
- **Tube Fitting Inspection Essentials**
- **Advanced Tube Bending**
- **Hose Essentials**
- **Valve Essentials**

...that will dramatically improve your Operational Safety, Productivity, and Profitability!

Meet Your Swagelok Technical Trainer

MIKE GAGEL,
Strategic Services Specialist



Mike, who worked at Swagelok Company for more than 20 years before joining us in 2015, helped author most of the Swagelok Training content used globally. He's thus ideally equipped to customize your course instruction to address your particular application/industry challenges. Mike, our Tube-Bending expert, is also a certified Swagelok Hose Advisor and our primary auditor for on-site Energy Evaluations of your gas, air, and fluid lines.

Why Our Training?

- We offer an unparalleled array of pertinent and timely course titles.
- We can bring our training directly to your site or project location.
- All of our classes include a full money-back guarantee.
- All graduates receive a genuine Swagelok Certificate of Completion, plus several valuable take-home items.
- We supply all class materials – students just need to show up!

SWAGELOK TECHNICAL TRAINING TITLES

Tube Fitting Installation & Tube Bending Essentials (8 Hours)

Learn how to:

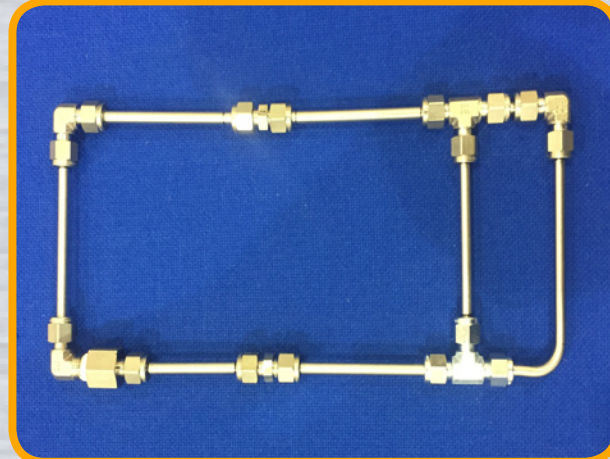
- assemble a Swagelok tube fitting
- select, handle, prepare, cut, and debur tubing
- make tube bends of 45°, 90°, 180°, plus offsets



Tube Fitting Inspection Essentials (4 Hours)

Learn how to:

- spot common connection errors that cause system leakage
- identify mixed-material tube fittings
- validate correct pipe thread usage and assembly



Valve Essentials (4 Hours)

Learn how to:

- safely and confidently choose, install, and maintain valves, per application
- understand the critical differences in valve types, functions, and operations
- interpret a flow curve and pressure/temperature tables



Advanced Tube Bending (3.5 Days)

Learn how to:

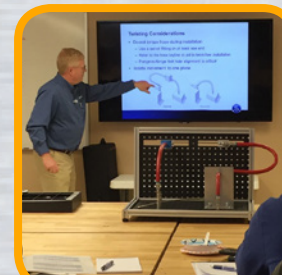
- master offset, rolling offset, parallel, complex, and segmented bends
- identify and avoid typical bend defects
- employ the measure-bend AND the proven Swagelok Tube Bending methods



Hose Essentials (4 Hours)

Learn how to:

- evaluate hose fit for purpose
- apply the Swagelok STAMPED methodology in your selection process
- properly clean and store hose



SWAGELOK

FACTORY-CONDUCTED TRAINING

(visit swagelok.com for complete class details)

Sampling System Problem-Solving & Maintenance/SSM (2 Days)

Get the skills needed to maintain sampling systems, troubleshoot problems, and take steps toward corrective actions.

Process Analyzer Sampling Systems/PASS 1 (5 Days)

Become fully versed in design fundamentals and principles of sampling systems.

Process Analyzer Sampling Systems/PASS Sub-Systems (5 Days)

Learn how to confidently build and design at least five of the most common sub-systems in a sampling system.

Process Analyzer Sampling Systems/PASS PLUS (5 Days)

Gain a more thorough understanding of sampling system terminology, concepts, and principles – and how all relate directly to participant's actual on-site issues and challenges.

Swagelok Steam Basics Level 1 (1 Day)

Get a solid foundation understanding of steam principles and processes.

Swagelok Steam Basics Level 2 (2 Days)

Level 1, plus added content around steam energy and efficiency techniques.

Swagelok Steam System Engineering, Design, and Optimization (3 Days)

Mastering a total steam system – from generation through condensate recovery.

