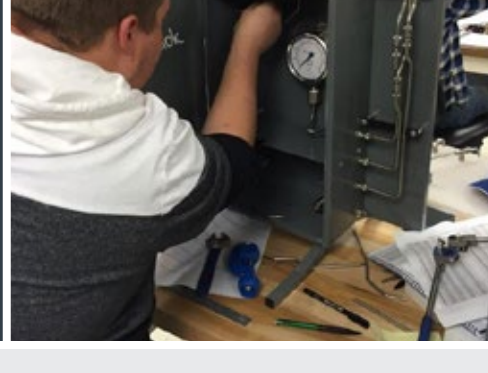
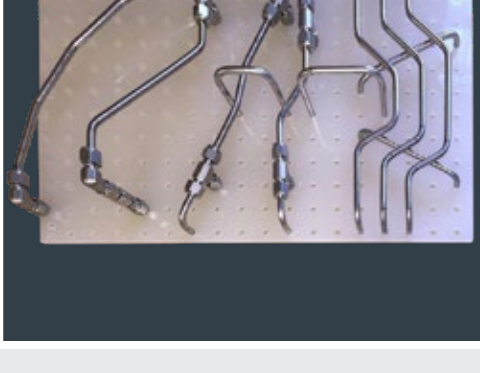


DO IT  
YOURSELF

-OR-

HAVE US  
DO IT FOR YOUDO IT  
YOURSELF

Register now for your  
**2024 Swagelok Advanced  
Tube Bending Safety Training** event  
and learn how to safely and expertly:



- apply a traditional Measure-Mark-Bend Method
- apply **Swagelok's unique Bending Method** for ultimate accuracy
- calculate bend offset lengths
- calculate the minimum amount of tubing needed for back-to-back bends
- calculate the minimum distance needed between bends
- maintain spacing when making parallel tubing runs
- make tube runs without a drawing or template
- calculate and make rolling offset bends
- use hand and benchtop tube benders
- identify and avoid bend defects
- identify and address the potential variables encountered when bending
- make offset, rolling offset, parallel, complex, and segmented bends
- and so much more!

- **Three-day session, offered at our leading-edge Training Center in Pittsburgh**
- **We can customize our content specifically to your applications and challenges**
- **Free parking and lunch provided each class day**
- **We supply all training materials, including componentry, benders, and more**



**Meet your  
instructor:**  
**MIKE GAGEL,**  
*Strategic Services  
Specialist*

*Don't Just Take Our Word For it...***Graduate Testimonials:**

*"You can bet I'll make fewer mistakes when making complicated bends."*

*"Now feel I can master the rolling offsets and parallel runs that used to give me trouble."*

*"This course is ideal for Mechanics who have to make multiple tubing runs."*

*"Any Engineer incorporating bends into a design would find this session worthwhile."*

*"Never knew the impact and importance of bend deduction and gain."*

*"I used to create so much scrap when bending...now I can make tubes that fit."*

OR

if time, schedules, and  
resources are tight...HAVE US  
DO IT  
FOR YOU

The **Swagelok Pittsburgh | Tri-State Area Design & Build Shop** is your local, proven, and trusted state-of-the-art resource for expert and fully warrantied 2" and under tube bending, simple to highly complex in scope.

We have a dedicated area specifically for high-volume bent tubing assembly work, performed by Mike Gagel, who doubles as our Safety Training Specialist.

*In addition, our three Swagelok-trained-and-certified technicians deliver safe, leak-tight Fabricated Solutions such as:*

- Gas Purge Panels and Enclosures
- Distribution Manifolds
- Custom Flex Hose Assemblies
- Sample Cylinder Assemblies
- Standard Instrumentation Mounting Kits
- Ultra-High-Purity Welded Manifolds
- Gas Delivery and Distribution Panels
- Gas and Liquid Grab Sampling Panels
- Mechanical Seal Support Systems
- Instrumentation and Transmitter Assemblies/Enclosures
- High-Pressure Test Stands
- Heat Exchanger Tubing Coils
- Gauge Block-and-Bleed Valve Assemblies
- Automated Ball Valve Assemblies
- Preset Relief Valves
- ....and so much more!

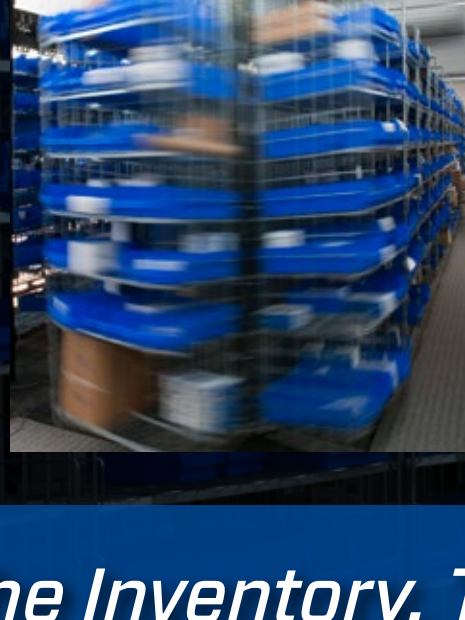


***We're ready and able to support you,  
teaching or doing. Contact:***

**Gary Osman,****Swagelok  
Field Engineer**[gary.osman@swagelok.com](mailto:gary.osman@swagelok.com)**Rudy Frank,****Director – Strategic Services  
& Marketing**[rudy.frank@swagelok.com](mailto:rudy.frank@swagelok.com)

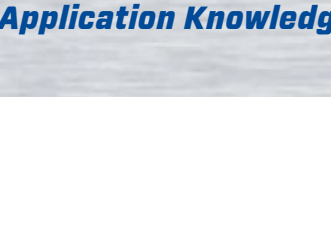
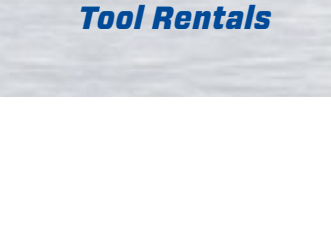
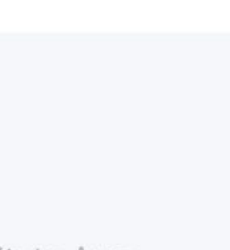
## WE DELIVER DIFFERENCE-MAKING SOLUTIONS:

Products | Strategic Support Services | Application Know-How



***The Brand. The Inventory. The Expertise.***

**WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER**

**Industry-Best  
Componentry****Masterful Custom  
Fabrication****Expert Safety  
Training****Extensive  
Energy Evaluations****Unparalleled  
Application Knowledge****Comprehensive  
Hose Advisories****Proven Inventory  
Management Support****Genuine Swagelok  
Tool Rentals**

WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:

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Swagelok Pittsburgh | Tri-State Area

49 Meade Avenue, Pittsburgh, PA 15202

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