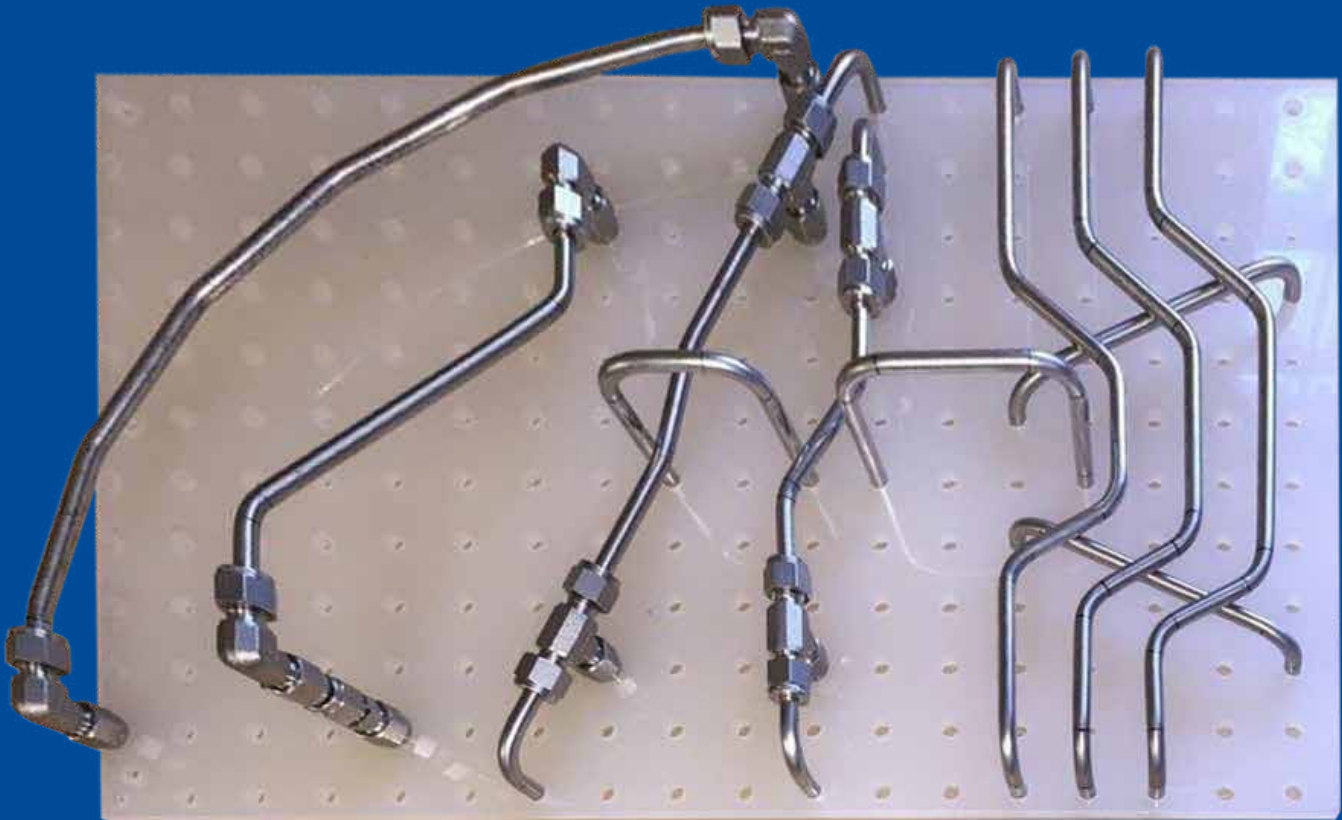
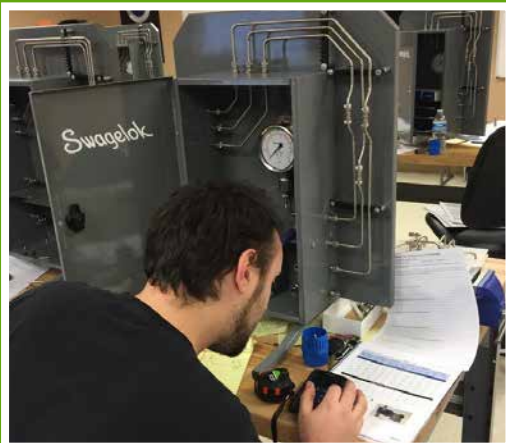




Swagelok Pittsburgh | Tri-State Area



ADVANCED TUBE BENDING TRAINING



Substantially improve your
Fluid-System Maintenance skills and value with Swagelok's
globally renowned Advanced Tube Bending course!

in just 3 DAYS,
YOU will 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!

"Not only will I now save time and money while making bends...my work will also look more professional."

"The instructor takes tube bending to another level."

"Now I have the confidence to do any bending job given to me in our shop."

Classes offered at our
Pittsburgh Training Center OR at your facility.

We supply all training materials:
componentry, large electrical box, tube benders...
Students simply need to show up!

all participants receive

- Swagelok Advanced Tube Bending Workbook
 - Tube Bending Fractional Data
 - Measurement Worksheets
- Genuine Swagelok Certificate of Completion
 - Continuing Education Credits

Complete money-back guarantee!



**Meet your
instructor:**
MIKE GAGEL,
*a 20-year Swagelok
Company veteran, our
Strategic Services
Specialist, and certified
tube-bending master.*

Graduate Testimonials:

"Even though I've been bending tubes for a long time, I learned plenty."

"I'll now be able to stop wasting time and material."

"I learned new – and better – ways to bend tubes."

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

"Anyone who bends tubes needs to enroll in this class."

"I especially benefitted from the hands-on portion of this class."

"Highly informative and fun!"

"Came away feeling confident about making high-quality offset 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."

"I know now that my bending will certainly help improve the quality of our finished product."

"I can bend anything now."

"Learning the Swagelok Bending Method was the highlight for me."

"Being able to make more accurate measurements will mean far less wasted tubing."

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

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

"Learning the calculations to bend tubing more precisely was my big takeaway."

"This class offers something for benders of all levels: beginners as well as experienced."

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

"Hearing bending theory...then putting it into practice...wonderful learning experience."

"Enables me to now make unassisted tubing repairs on our skids."



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We offer an unparalleled array of pertinent and timely safety-first course titles – and can bring our instruction directly to your facility or project site. Reserve your Swagelok training event today: *Advanced Bending, Fitting Installation & Tube Bending Essentials, Fitting Inspection Essentials, Hose Essentials, Valve Essentials, or (coming soon) Regulator Essentials!*

Contact Us:

P: 412.761.3212

 pittsburgh.swagelok.com

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