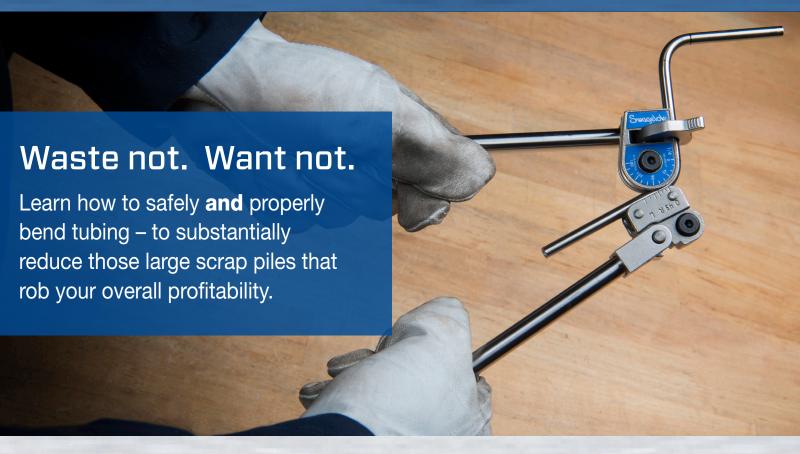
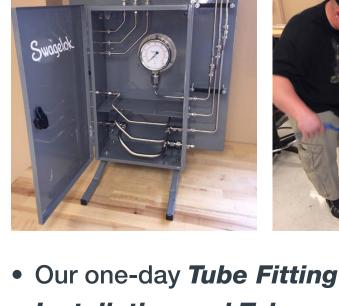


e-FLASH



Swagelok Pittsburgh | Tri-State Area offers Two Levels of **Expert Tube Bending Training:**







Installation and Tube **Bending Safety Essentials** class includes a two-hour introductory segment that demonstrates how to assemble a tube fitting. Balance of day is then devoted to student mastering the use of a hand tube bender to make bends of 45°, 90°, 180°, and offsets. Time is also spent learning how to



select, handle, prepare, cut, and debur tubing. Our four-day Advanced Tube Bending course is unparalleled for its width and breadth of timely content and hands-on

- ...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

...make tube runs without a drawing or template

activity. Students will learn how to:

- ...calculate the minimum distance needed between bends
- ...maintain spacing when making parallel tubing runs
- ...calculate and make rolling offset bends
- ...use hand and benchtop tube benders
- ...identify and address the potential variables encountered when bending
- ...make offset, rolling offset, parallel, complex, and segmented bends …and so much more!

...identify and avoid bend defects



WE SUPPLY...

Meet your instructor:

MIKE GAGEL,

a 20-year Swagelok Company veteran,

our Strategic Services Specialist, and

certified tube-bending master.

facility or project location to Swagelok conduct instruction **OR** visit

cal Training Services

before enrolling in our *Advanced* Bending class.) We can also perform large-diameter, complex

tube bending for you in

our Fabrication Center

assistance and guidance.

OR we can come to

your project site or

our leading-edge Training

(It's not a prerequisite to first

complete our *Essentials* course

Center in Pittsburgh.



facility to provide expert tube-bending technical

From just a few recent graduates: "Not only will I now save time and money when making bends, my work will look more professional."

To stop creating waste and start improving personal

and site efficiency and productivity, contact:

rudy.frank@swagelok.com

"The instructor took tube bending to another level."

"Now I truly have the confidence to do any bending

job given to me in our shop."



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



49 Meade Avenue Pittsburgh, PA 15202 412.761.3212

Swagelok Pittsburgh | Tri-State Area

Forward