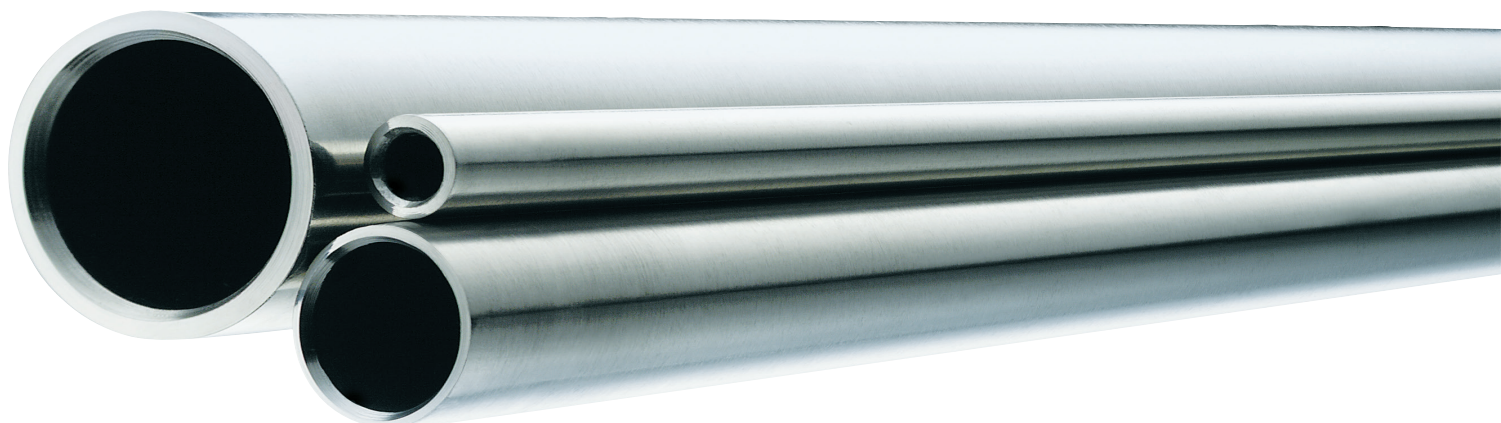


# Tube Bending



## Course Agenda

### INTROUDCTION ►

- Bending Components
- Bending Terminology
- Types of Bends

### METHODS ►

- Bending Methods
- Bend Offsets
- Types of Bends

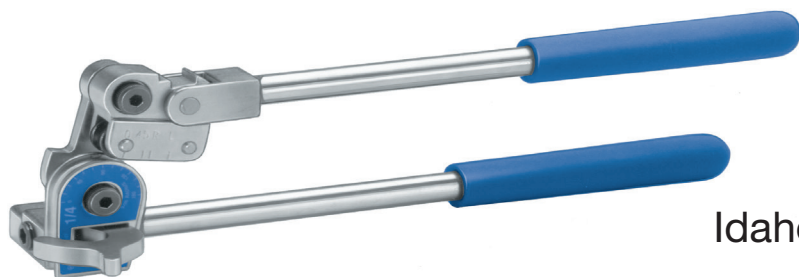
### EXERCISE ►

- Hands-on Tube Bending Exercise

## Course Objectives

Upon completion of this class, attendees should be able to:

- explain the basic concepts of the theory and practice of tube bending
- demonstrate essential tube bending concepts necessary to complete quality 45°, 90°, 180° and offset bends
- practice the measure-bend method through a variety of hands-on exercises using the Swagelok® hand tube bender
- describe springback, how it affects the bending process, and ways to compensate for it
- bend tubing into a shape as specified by a template using the measure-bend method of tube bending, bend data, and tube bender



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Cost of training includes class materials: tubing, templates, bend calculators, fittings, etc.  
All tools needed for class instruction will be provided by Swagelok® unless otherwise notified.