



Tubing System Design Elements Hydrogen Applications

Available on Demand at Swagelok Vancouver and Calgary

2 Day Hands-on Training for Hydrogen Tubing Systems

One of the most formidable challenges in the development of safe, dependable, and leak-tight hydrogen fluid systems is the nature of hydrogen itself. Designing tubing systems to overcome these challenges requires the right components, the right materials, the right expertise, and the right training. That is why we developed the Swagelok® Tubing System Design Elements for hydrogen applications (SWAGE-TSDE-H2). This course provides training for those responsible for designing hydrogen tubing systems.

Course Objectives:

Upon completion of this course, you should be able to:

- Have an understanding of the best practices when working with hydrogen
- Explain the relationship between installation requirements and safety in the workplace
- Select and prepare the proper tubing for your installation



Sharpen Skills. Meet Environmental Standards.

Designing, engineering, installing, and maintaining a high-performance hydrogen tubing system for maximum safety and integrity means starting with the basics. That is why this training program provides foundational understanding of H₂ and progressing through critical aspects such as industry standards, materials science, tubing system design, leak detection, system integrity and maintenance considerations.



Agenda

- Hydrogen Basics and Myth Busting
- Industry Breakdown
 - Making the Molecule
 - Distribution
 - Infrastructure
 - Vehicle
- Industry Standards
- Materials Science
 - Hydrogen Embrittlement
 - Hydrogen Compatible Materials
- Tubing System Design Considerations
 - Oil & Gas vs. Hydrogen Tubing System Design
 - Hydrogen Characteristics
 - Detonation and Deflagration
 - Fluid Dynamics
 - Component Selection
 - Sampling
 - Gas Distribution, Purging
- System Environment Considerations
- Leak Detection
- System Integrity and Maintenance



Register Today



Secure your spot!

Scan the QR code to register
OR email your account manager.

CONTACT US

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