



Swagelok® Small Bore Tube Fitting Installation Course for Hydrogen (H₂) Applications

■ Target Audience

Technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of hydrogen applications and small bore tubing gas delivery systems.

■ Course Length

1 Day

■ Practical Content

50%

■ Theoretical Content

50%

■ Course Aims

To provide delegates with a comprehensive understanding of the Swagelok® tube fitting and related products, and instruct on the correct installation, maintenance and trouble-shooting techniques to increase system efficiency and improve system safety. To provide an awareness of standards and best practices when working with high pressure and high-safety factor hydrogen applications and gas delivery systems.

■ Course Content

- Safe tube fitting installation procedures for high pressure applications and high-safety factor systems
- Understanding of hydrogen leakage, its implications and helium leak testing
- Correct material selection and hydrogen embrittlement
- Identify component parts required to make a leak free connection
- Correct thread installation and sealing methods (SAE, NPT, BSP, etc)
- Metric v fractional component part identification
- Correct tube handling, preparation and bending
- Overview of EC79 standard
- Awareness of HV35 and HV70

**PART NUMBER:
TSG-H2STFIC**

■ Course Delivery

Classroom and training workshop.

■ Certification

Swagelok® Certificate of Completion – valid for 3 years (subject to successful completion of both practical and theoretical exams).

■ Instructor

Swagelok® certified trainers.

■ Swagelok Training Academies

Swagelok Scotland, Aberdeen

1 Kingshill Park, Venture Drive, Westhill, Aberdeen, AB32 6FL

Swagelok Scotland, Motherwell

19 Glasgow & Edinburgh Road, Newhouse, Motherwell, ML1 5GJ

Swagelok Teesside

STEM Centre, Middlesbrough College, Windward Way, Middlesbrough, TS2 1QG

■ Contact

Onsite and offshore courses are available. For further details, please contact our training team at scots.training@swagelok.com or call +44 (0)1224 759916.