Swagelok
Swagelok Sub-Saharan Africa
Swagelok Training Services
Improving Safety, Maintaining Compliance,
Minimising Rework, Doing More With Less
Swagelok
Swagelok

Swagelok is your trusted partner in building safe, reliable, and productive operations.

By providing world-class products, assemblies, training, and services, we empower your workforce to perform at their best - efficiently and effectively.

Effective training and development programs are essential for building a productive workforce that is well-prepared for job demands and safe operations.

Let us put our team alongside yours to tackle performance issues in fluid and sampling systems through targeted, effective training for your team.

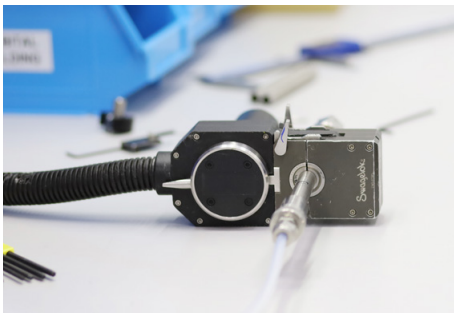
Training Services Capabilities

Swagelok® training programs provide you with a range of valuable and practical tools for meeting daily challenges related to fluid system and sampling system designs, operations, and maintenance. Our courses are detailed, practical, hands-on and taught by experienced, certified instructors to help both new team members and industry veterans.

Whether you are building a strong foundation or staying current with the latest technologies and best practices, Swagelok offers comprehensive training options.

Swagelok Essentials

Swagelok® Essentials training courses provide critical skills for developing, building, and maintaining dependable fluid systems.



Orbital Welding

With the Swagelok® M200 welding system, it's easy to make precise, consistent, quality welds.

Analyser Technician Training

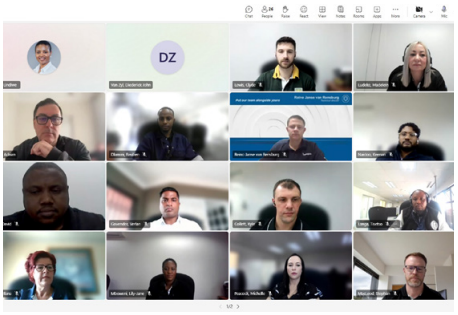
Swagelok® Analyser Technician Training is a hands-on training developed to create an enriched learning experience for analyser technicians, laboratory technicians, anyone who constructs, operate or maintains sampling systems and those new to sampling.

PASS

Swagelok® Process Analyser Sampling System (PASS) training courses will teach you how to design and optimise process analyser sampling systems, providing the sound design principles needed to prevent costly sampling system errors.

SSM

Swagelok® Sampling System Problem Solving and Maintenance (SSM) training courses will teach you how to troubleshoot a variety of common sampling system issues from the process line through sample disposal.



Webinars

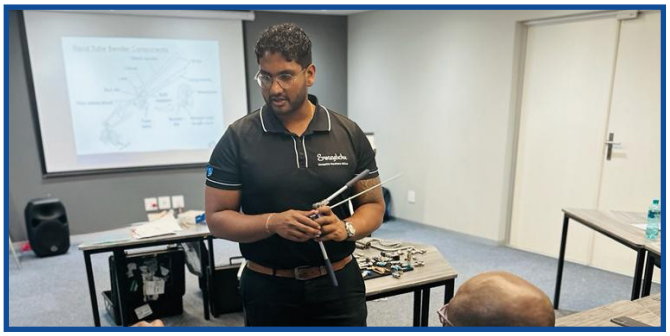
Keep your fluid system design, operation, and maintenance skills up to date by attending or watching Swagelok webinars on demand.

Swagelok Essentials

Swagelok® Essentials training courses provide critical skills for developing, building, and maintaining dependable fluid systems. Taught by Swagelok-certified trainers at locations and times convenient to you, these courses provide the foundational knowledge and techniques needed to build and operate high-performing fluid systems.

Tube Fitting Installation Essentials

This hands-on course equips participants with essential skills for proper tube fitting installation. Through instruction and practical exercises, learners will master tubing preparation, assembly, and assessment for safe, reliable performance.



Participants will gain experience in cutting, deburring, assembling Swagelok fittings, gauging assemblies, identifying thread types, and preparing threaded installations. The course also covers tubing selection, fitting design, leakage prevention, and alternative fitting types.

By course completion, attendees will have the knowledge and technical proficiency to install tube fittings confidently and correctly.

COURSE OBJECTIVES

Skills:

- Properly cut and debur tubing
- Correctly assemble a Swagelok tube fitting
- Gauge a tube fitting assembly
- Identify thread types and installation practices
- Properly prepare threaded installations
- Be able to prepare tubing correctly

Gain knowledge and understanding of:

- Tubing selection, preparation and handling
- Differences in tube fitting design characteristics
- Tube fitting components and their importance to proper assembly
- Leakage
- Different thread types and installation practices
- Other fitting types to make the job easier

Tube Bending Essentials

This course provides a comprehensive introduction to hand tube bending, covering key concepts and techniques for precision and quality. Participants will learn the components of a hand tube bender and apply the measure-bend approach through hands-on exercises. By course completion, attendees will confidently perform 45°, 90°, 180°, and offset bends, ensuring accurate and efficient tubing applications.

COURSE OBJECTIVES:

- Explain the theory and key concepts of how to bend tubing
- List the components of a hand tube bender and their role in bending tubing correctly
- Utilise hands-on exercises to practice the measure-bend approach to tube bending
- Demonstrate tube bending skills necessary to complete quality 45°, 90°, 180° and offset bends

Medium- and High-Pressure Cone and Thread Essentials

This course provides foundational knowledge in cone and thread preparation and installation. The goal is to enable safe, optimal performance of cone and thread fittings in medium- and high-pressure systems.

Hose Essentials

Understanding the fundamentals helps to extend hose production cycles, promote safety, and lower total cost of ownership. Instructors introduce common terminology, explain variables impacting hose selection, and show how to select hose for different applications. Coursework includes common practices for conducting hose inspections and best practices for preventive maintenance.

FK Fitting Essentials

This course will help you understand and identify key design characteristics of medium-pressure Swagelok® FK series fittings and learn how to prepare and install them. It covers the basic criteria, variables, and considerations relevant to safely and effectively using FK tube fittings in medium-pressure gas and liquid systems.

CDP ACCREDITED TRAINING COURSE

CPD ACCREDITED: Boost your professional development - CPD points available for Tube Fittings Installation Essentials and Tube Bending Essentials

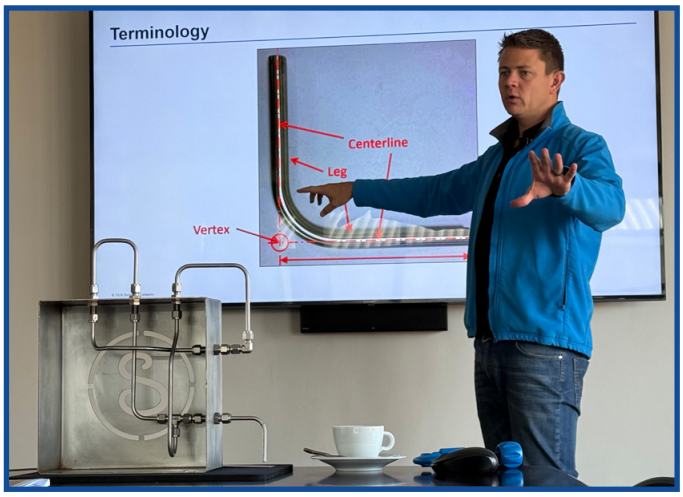
CERTIFICATION: Swagelok Certificate of Completion – Valid for 3 Years

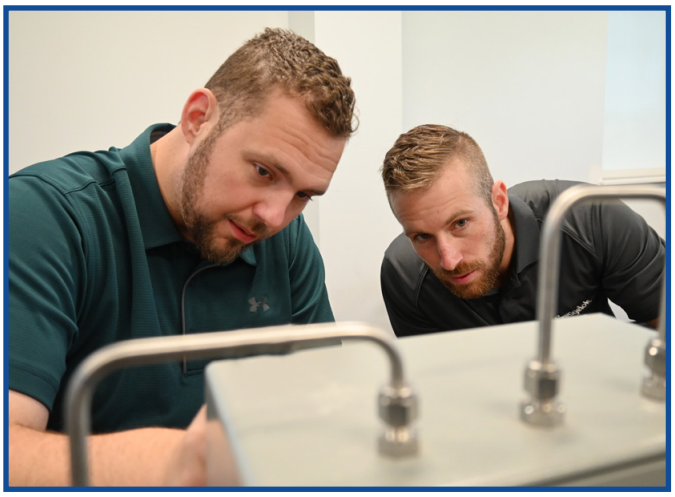
Orbital Welding

If you're designing a critical fluid system, you're likely considering welding for assembly. With the Swagelok® M200 welding system, it's easy to make precise, consistent, quality welds. While automatic orbital welding can help you overcome issues related to widespread welder shortages, proper orbital welding training is essential to equip your emerging welders for success. Make the most of what modern orbital welding offers with our five-day orbital welding training course.

This training program is designed to help you:

- Gain an understanding of welding principles
- Understand setup and operation of the Swagelok M200 orbital welding system
- Troubleshoot frequently encountered welding problems
- Avoid operational issues through hands-on experience
- Optionally test for ASME Section IX qualification if you need to fulfill QA/QC





GLOBAL SUPPORT: Local expertise. Global standards. One Swagelok training experience led by certified trainers sourced both locally and from our global network.

ISO9001: 2015 ACCREDITED

LIMITED LIFETIME WARRANTY

Analyser Technician Training

Swagelok® Analyser Technician Training is a hands-on training developed to create an enriched learning experience for analyser technicians, laboratory technicians, anyone who constructs, operate or maintains sampling systems and those new to sampling. If these responsibilities are part of your role, you know how important a quality sample is to achieve accurate analysis. Inaccurate sampling usually results from problems within the sampling system, not the analyser. With our hands-on training, we teach you to find the root cause of issues and address them.

In this two-day course, you can learn to diagnose and eliminate common sampling system performance issues by completing a practical evaluation of an existing sample system and applying knowledge gained in the course to reverse engineer the system. Trainees will gain knowledge of engineering principles, formulas, and calculations as well as processes to identify the root cause of challenges rather than relying on guesswork.

Sampling System Problem Solving & Maintenance (SSM)

Swagelok® Sampling System Problem Solving and Maintenance (SSM) training courses will teach you how to troubleshoot a variety of common sampling system issues from the process line through sample disposal. Attendees will learn how to troubleshoot sampling systems with confidence.

In this course, you will learn:

- How to recognise and diagnose common sampling system design flaws that lead to excessive time delay and non-representative samples
- The formulas, calculations and engineering principles that can help you properly troubleshoot process analyser sampling systems and fine-tune them for optimum performance
- How to maintain your sampling system with minimal error and greater system integrity
- How to troubleshoot actual sampling system designs and recommend corrective actions

Webinars

Keep your fluid system design, operation, and maintenance skills up to date by attending or watching Swagelok webinars on demand. Our subject-matter experts regularly help industrial professionals around the world better understand everything from how to select fluid system components to how to account for demands of specific industries and applications when building reliable systems. No matter your level of experience, you can find a Swagelok webinar designed to meet your needs.

Process Analyser Sample System (PASS)

Swagelok® Process Analyzer Sampling System (PASS) training courses will teach you how to design and optimise process analyser sampling systems, providing the sound design principles needed to prevent costly sampling system errors. Attendees will learn how to design and build an optimised process analyser sampling system that delivers timely, accurate results.

In this course, you will learn:

- How a sampling system functions from the process line and tap through the transport lines and stream switching, sample conditioning, analyser and disposal processes
- How to identify the root cause of issues related to system design
- Engineering principles, formulas and calculations that are the basis for sound sampling system design
- How to optimise your sampling system, prevent sampling system errors, and ensure accurate process analyser readings

Produ
Order Number:
Part Number:

Swagelok®

Swagelok Sub-Saharan Africa

SCAN THE CODE TO FIND OUT MORE

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LEVEL 2 CONTRIBUTOR TO B-BBEE STATUS

ISO 9001 Quality Management FM 650385