



Swagelok Product Specific Technical Training





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KNOWLEDGE CREATES SAFETY AND EFFICIENCY

Modern fluid systems place high demands on safety, reliability, and expertise. Even minor errors during installation, operation, or maintenance can affect system availability, efficiency, and safety.

The Arbor Group, with its authorized Sales and Service Centers for Swagelok in Switzerland, Austria, Hungary, and Romania, therefore supports customers not only with high-quality, leak-tight components, but also with practical customer training and technical expertise.

Our training programs help minimize risks, optimize processes, and provide targeted professional development for employees — regardless of industry or system complexity.

YOUR BENEFITS

- Greater safety in handling fluid systems
- Maximized system availability
- Reduced leaks and downtime
- Practical, hands-on knowledge directly from the specialist
- Local support backed by global Swagelok expertise



In addition to our customer training courses, we offer further technical services such as technical consulting, application engineering, field engineering, assembly services, and tool rental.

This brochure provides you with an overview of our customer training courses and their content.

CONTACT US

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ESSENTIAL TRAININGS

OVERVIEW ESSENTIALS CUSTOMER TRAININGS

Well-trained staff enhance safety, extend the durability of products, and boost your competitive edge. By utilizing the reliable Swagelok Essential Trainings, you can lower installation, repair, and upkeep expenses while avoiding leaks and unnecessary downtime.

Available Essential Trainings at Swagelok Romania in Braşov

• Tube Fitting Installation	SCT-INST	1 day
• Tube Bending	SCT-BEND	1/2 day
• Tube Fitting Installation Inspection	SCT-INSP	1/2 day
• FK Fitting	SCT-FK	1/2 day
• Hose	SCT-HOSE	1/2 day
• VCR/VCO Fitting	SCT-VCR/O	1/2 day



We regularly offer the Tube Fitting Installation Essentials training in Braşov in English. You can find training dates and further information on our website or through your Swagelok sales engineer.



More information on our minisite



TUBE FITTING INSTALLATION

Minimize the risk of accidents and downtime

Course Objectives

- Proper pipe selection and pipe handling
- The difference between TUBE and PIPE
- Safe and correct assembly of screw connections
- Creating tight connections
- Work professionally with the appropriate tools
- Minimize accident risks
- Increase personal responsibility

Theoretical Part

- Pipe selection and influencing factors
- Proper handling of pipes, correct pipe assembly, support and routing
- Structure, function, assembly Swagelok pipe fitting
- Comparison of different screwing systems
- Leaks, necessary safety precautions
- Error analysis

Practical Part

- Creating a stainless steel piping pattern
- Optimal use of test gauges and aids
- Handling pipe benders
- Detecting possible assembly errors
- Burst test on the high-pressure test stand
- The examinee remains with the participant

Proof of Training

Swagelok provides an internal certificate as proof of successful participation and passing of the test.

Validity

3 years, renewal on request

Location of the training | language

- At Swagelok AA-Solution RO S.R.L. in Brasov
- The course is offered in RO | EN

Duration | Costs

- From 8.30 to approx. 16.30 Uhr
- Costs on request | Group rates available





ESSENTIAL TRAININGS

TUBE BENDING

Course Objectives

This practical course is intended for engineers, assemblers, and plant operators to ensure skills in the selection, preparation, and best practices of pipe bending.

Course Content

- Discuss hose/pipe variables and learn how to correctly test and select pipes
- Get to know cutting methods and learn techniques for deburring pipes
- Identify the parts and procedures of pipe bending devices
- Carry out practical bending work

Proof of Training

Swagelok provides an internal certificate as proof of successful participation and passing of the test.

Validity

3 years, renewal on request

Location | language

- At Swagelok AA-Solution RO S.R.L. in Brasov
- The course is offered in RO | EN

Duration

6 hours

Dates and costs

on request | group tariffs available





ESSENTIAL TRAININGS

TUBE FITTING INSTALLATION INSPECTION

Course Objectives

Proper inspection plays a crucial role in reducing the likelihood of leaks. In this course, participants learn to identify the correct placement of tubing systems, properly install Swagelok tube fittings, and troubleshoot other common issues in fluid systems.

Course Content

- Identification of installation errors in piping systems, tube fittings, and threaded fittings
- Corrective measures
- Disassembly and reassembly procedures for inspection
- Safety aspects
- Identification of mixed components in fittings (intermix/interchange)
- Imperial vs. metric fittings and fittings made of different alloys

Proof of Training

Swagelok provides an internal certificate as proof of successful participation and passing of the test.

Validity

3 years, renewal on request

Location | language

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- The course is offered in RO | EN

Duration

6 hours

Dates and costs

on request | group tariffs available





ESSENTIAL TRAININGS

FK FITTING (up to 1378 bar)

Course Objectives

This program provides an understanding of the key design features of medium- to high-pressure Swagelok FK series tube fittings and demonstrates how to prepare and install them. It covers the fundamental criteria, variables, and considerations relevant to the safe and effective use of FK series tube fittings in medium-pressure gas and liquid systems.

Course Content

- Recognizing potential hazards when working with high-pressure systems
- Recognizing the advantages and features of the FK series
- Assembling FK series fittings
- Inspecting and troubleshooting installations
- Understanding standards, pressure ratings, and correct handling

Proof of Training

Swagelok provides an internal certificate as proof of successful participation and passing of the test.

Validity

3 years, renewal on request

Location | language

- At Swagelok AA-Solution RO S.R.L. in Brasov
- The course is offered in RO | EN

Duration

4 hours

Dates and costs

on request | group tariffs available





ESSENTIAL TRAININGS

HOSE

Course Objectives

This program is designed for engineers and installers to deepen their expertise in fundamental concepts crucial for extending hose service life, ensuring safety, and reducing total cost of ownership. Instructors explain the variables influencing hose selection and demonstrate appropriate methods for selecting hoses for various applications.

Course Content

- Definition of common hose-related terms and terminology
- Discussion of hose selection criteria
- Description of how to evaluate a hose's suitability for a specific application ("fit for purpose")
- Identification of common issues encountered in various hose applications
- Understanding expected hose service life.

Proof of Training

Swagelok provides an internal certificate as proof of successful participation and passing of the test.

Validity

3 years, renewal on request

Location | language

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- The course is offered in RO | EN

Duration

4 hours

Dates and costs

on request | group tariffs available





ESSENTIAL TRAININGS

VCR / VCO ESSENTIALS

Course Objectives

Swagelok VCR metal-gasket face seal fittings and VCO O-ring face seal fittings are specifically designed for superior leak-tightness and reliability. They are primarily used in demanding vacuum applications and the semiconductor industry—wherever absolute purity is required, space is limited, or components must be frequently replaced for maintenance.

Course Content

System comparison: Key differences between VCR and VCO fittings and their specific applications.

Identification: Common features and important markings to prevent mix-ups.

Precision Installation: Best practices for the proper assembly of both fitting types to prevent leaks in sensitive vacuum environments.

Expert tips: Efficient troubleshooting and practical solutions for everyday work.

Proof of Training

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Validity

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Location | language

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- The course is offered in RO | EN

Duration

4 hours

Dates and costs

on request | group tariffs available





ADVANCED TRAININGS

OVERVIEW ADVANCED CUSTOMER TRAININGS

In addition to the local essential trainings, further live training sessions in cooperation with European Swagelok Sales and Service Centers or Swagelok Company in the USA are available upon request:

- Medium and high Pressure Cone and Thread Essentials
- Hand Torque Flanges Connections Essentials
- Process Analyser Sampling System (PASS I)
- Process Analyser Sampling Subsystem (PASS II)
- Orbital welding Training
- Valve Training
- Material Science
- Tubing System Training



More information on trainings
and enrollment on our website