



SWAGELOK® MALAYSIA TRAINING

Swagelok®

Swagelok Malaysia



ABOUT SWAGELOK® MALAYSIA

Swagelok Malaysia is a leading provider of engineered fluid system products and solutions for over 40 years. Our commitment to quality and wide global network enables us to provide innovative solutions to meet the evolving needs of the industries. Our vision is ***To be the fluid system experts the world relies on***, we serve a diverse customer base including oil and gas, petrochemical, semiconductor, clean energy, and power industries. Our expertise helps customers safely, efficiently, and reliably manage liquids and gases in demanding applications.



Our Vision

To be the fluid system experts the world relies on.

Expand Your Knowledge With Training by Industry Experts

Swagelok® training programs provide a range of valuable and practical tools for meeting day-to-day challenges related to fluid system and sampling system design, operation, and maintenance. In-depth, hands-on courses taught by experienced instructors help both new team members and industry veterans. Whether you need to build a foundational understanding of fluid and sampling systems or you want to stay up to date on the latest technologies and best practices, Swagelok Malaysia offers robust training. We provide training courses designed to enhance your team's critical skills for designing, building, and maintaining high-performing fluid systems. Rely on Swagelok-certified trainers to equip your team members with the knowledge and practical skills they need by joining our training.



SWAGELOK MALAYSIA TRAINING COURSES

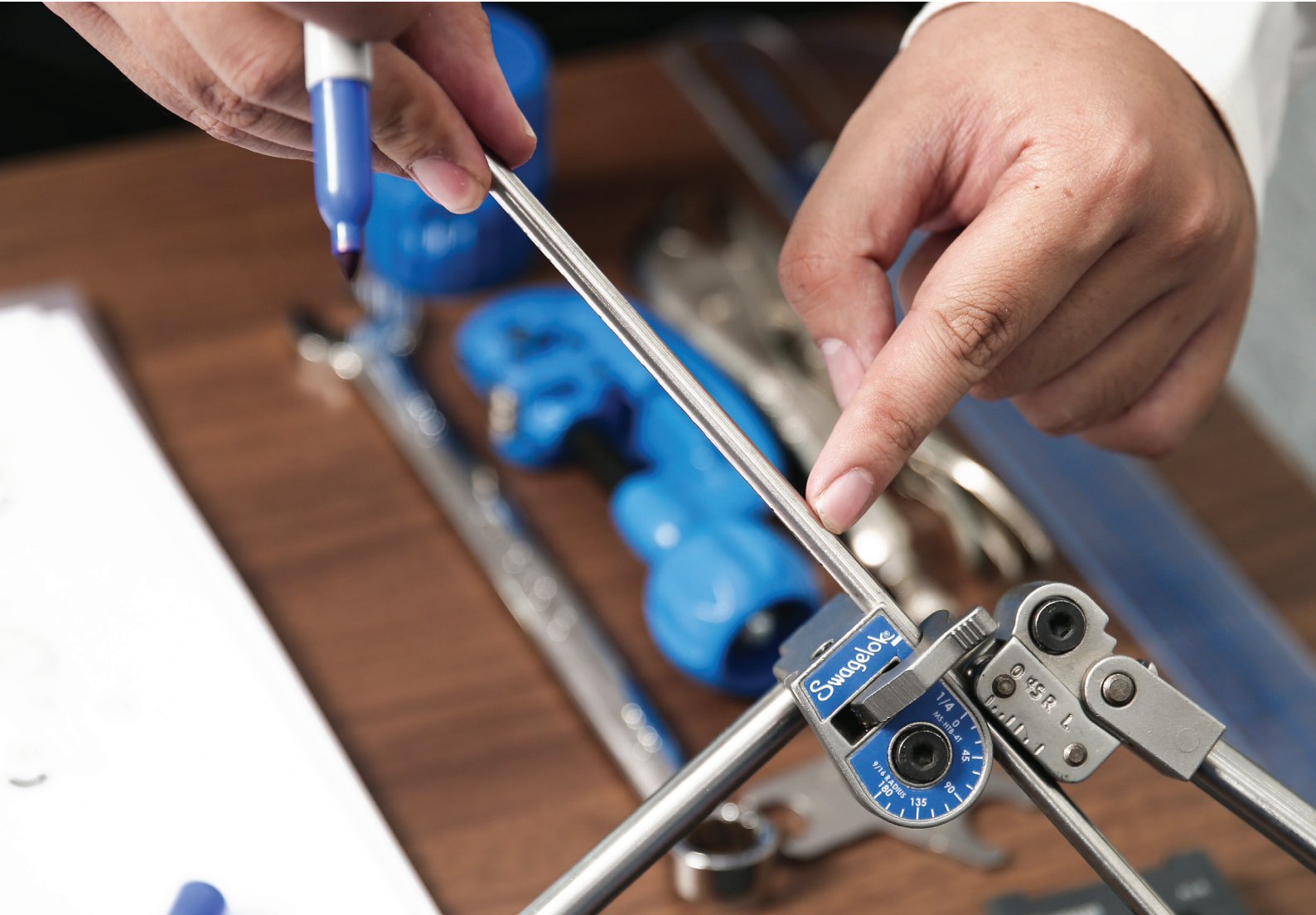
PART NUMBER	COURSE	DURATION	* FEES PER PAX (RM)
SWAGE-THREAD	Thread Identification	1/2 Day	580
SWAGE-VCR	VCR® and VCO® Fitting Essentials	1/2 Day	580
SWAGE-HOSE	Hose Essentials	1/2 Day	755
SWAGE-VALVE	Basic Valve Selection	1/2 Day	755
SWAGE-TB	Tube Bending Essentials	1/2 Day	1,050
SWAGE-TFI	Tube Fitting Installation Inspection Essentials	1/2 Day	1,210
SWAGE-TF	Tube Fitting Installation Essentials	1/2 Day	1,415
SWAGE-SWS	Swagelok® M200 Orbital Welding	1 Day	1,155
SWAGE-IPT	Medium & High Pressure Cone & Thread Essentials	1/2 Day	1,385
SWAGE-TF&TB	Tube Fitting Installation & Tube Bending Essentials	1 Day	1,925
SWAGE-TSTP-CR	Tubing System Training Program, Chemical and Refining	2 Days	4,200
SWAGE-TSTP-H2	Tubing System Training Program, Hydrogen Applications	2 Days	4,200
SWAGE-TSTP-OG	Tubing System Training Program, Oil and Gas	2 Days	4,200
SWAGE-FK	FK Fitting Installation Essentials	1/2 Day	2,100
SWAGE-HTFC	Hand Flanged Connections Essentials	1/2 Day	725
SWAGE-ATB	Advanced Tube Bending	1.5 Days	3650



SWAGELOK MALAYSIA TRAINING COURSES

PART NUMBER	COURSE	DURATION	*FEES PER PAX (RM)
SWAGE-PASS	Process Analyzer Sampling System (PASS)	5 Days	TBA
SWAGE-PASS-SUBSYSTEM	Process Analyzer Sampling System Subsystems	5 Days	TBA
SWAGE-SSM	Sampling System Problem Solving and Maintenance (SSM)	2 Days	TBA
SWAGE-TSDE-H2	Tubing System Design Elements, Hydrogen Applications	2 Days	TBA
SWAGE-MTRL SCIENCE	Materials Science	2 Days	TBA

*Training course is subject to 8% service tax



SWAGELOK ESSENTIALS TRAINING COURSES

As part of our commitment to helping customers strengthen fluid system knowledge and best practices, Swagelok Malaysia offers a series of Swagelok Essentials training courses designed to build practical understanding of fluid system components, installation, operation, and maintenance.

All courses are conducted by our certified trainer and can be held either at Swagelok Malaysia's training facility or at the customer's premises for greater flexibility and convenience.



PART NUMBER: SWAGE-THREAD

Thread Identification

Designed for technicians, maintenance and engineering personnel who requires knowledge and understanding on how to identify Common Thread Forms, Small Bore Tubing ("SBT") Connections and Configurations.

Course Length

1/2 Day

Course Aims

To provide delegates with the tools and understanding on how to correctly identify common thread forms and SBT components as well as identify the pressure capabilities of the connections and pressure injection injuries.

Topics

- Thread Identification - Practical and Theoretical Activities
- Tapered Threads: NPT, BSPT (ISO7/1)
- Straight (Parallel) Threads: BSPP (ISO228/1), SAE/MS, JIC (AN), Metric, etc.

- Tapered Thread Sealant Application
- Straight Thread Seal Mechanisms
- Common SBT System Connections and Configurations
- Pressure Ratings Awareness
- Pressure Injection Injuries Awareness

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

Swagelok® Certified Trainers

Training Fee

RM 580 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-VCR

VCR® and VCO® Fitting Essentials

Designed for technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of small bore tubing and piping systems.

Course Length

1/2 Day

Course Aims

To provide delegates with an introduction to the functions and the sealing principles of face seal fittings. Correct procedures for assembly and reassembly are reinforced through hands-on demonstrations and exercises. The learning methods of this course include the use of graphic illustrations, video training, product samples and hands-on experience.

Topics

- Tube Preparation and Variables
- The Swagelok® Tube Fitting
- The Key Design Elements of Face Seal Fittings
- Considerations when Installing the Fitting in Ultra-high Purity Systems
- Review the importance of Installation Techniques which will Extend the Life of the Fitting and Assure a Leak Tight System

- Troubleshooting Exercises designed to help delegates identify the Most Common Installation Errors
- OPTECH Rig Training and troubleshooting practical exercises
- Identification of VCR Gasket Types, Options and Usage

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

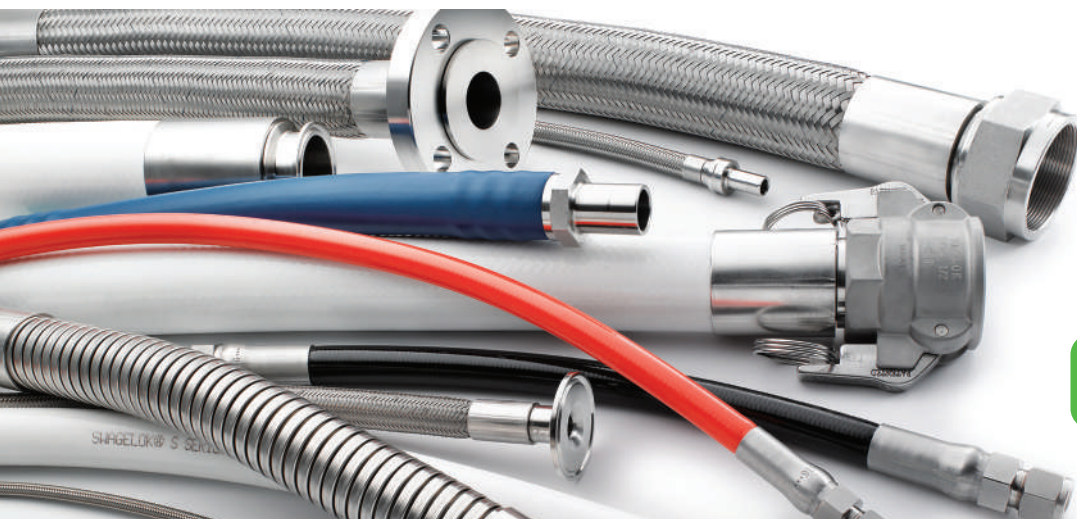
Swagelok® Certified Trainers

Training Fee

RM 580 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-HOSE

Hose Essentials

Designed for technicians, maintenance and engineering personnel who requires knowledge and understanding on hose and flexible tubing selection, installation, inspection and best practices.

Course Length

1/2 Day

Course Aims

To provide delegates with comprehensive knowledge on hose and flexible tubing construction, components, hose identification, selection, installation and best practices. The training covers inspection practices in line with the energy institute guidelines.

Topics

- Hose and Flexible Tubing Construction
- The Components of a Hose Assembly
- Hose Assembly Identification
- Hose Selection Considerations

- Hose Inspection Considerations
- Troubleshooting and Examples of Bad Practices
- Hose Installation and Inspection; Practical Activities in line with the Industry Guidelines

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

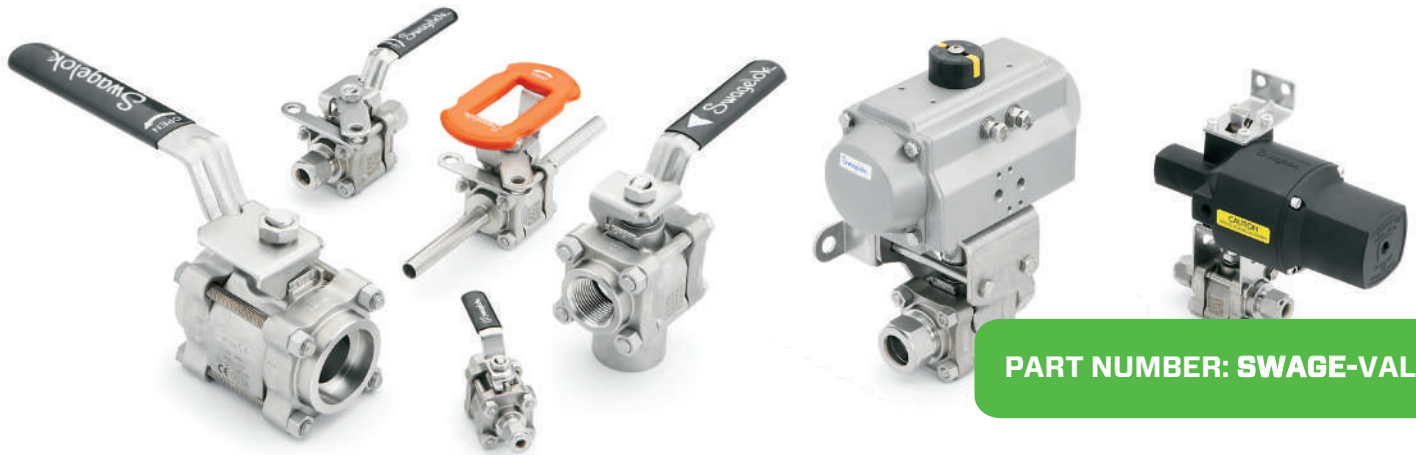
Swagelok® Certified Trainers

Training Fee

RM 755 per pax

Contact Us

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Basic Valve Selection

Designed for technicians, maintenance and engineering personnel who require knowledge and understanding of how to choose the right valves for your applications.

Course Length

1/2 Day

Course Aims

To equip you with foundational system knowledge that will enable costs reduction, enhanced safety and extended production cycles in your valve systems.

Topics

- Identifying valve types, functions, constructions and operation.
- Understand proper installation, repair and trouble shooting of valves.
- Define leakage and how to control the defined flow and understand the system's factors impacting the flow.

- Identify and list factors affecting the service life.
- Understand and learn to read the flow and system is factors impacting the flow.
- Learn to read the flow curves and P/T tables.

Certification

Swagelok® Certificate of Completion

Instructor

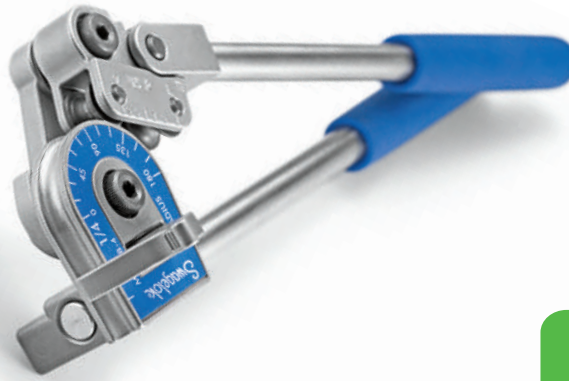
Swagelok® Certified Trainers

Training Fee

RM 755 per pax

Contact Us

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PART NUMBER: SWAGE-TB

Tube Bending Essentials

Designed for technicians, maintenance and engineering personnel looking to gain valuable knowledge and experience in tube bending both theoretically and practically. The course covers hand tube bending from 1/8" to 1/2" OD (3mm to 12mm OD).

Course Length

1/2 Day

Course Aims

To provide you with a comprehensive understanding of the various tube bending methods utilizing the Swagelok® Hand Tube Bender. Each delegate will complete a variety of exercises comprising of 45°, 90° & 180° bends on different planes using offset calculations and measure then bend the tubing to fit out an enclosure internally and externally with tubing runs.

Topics

- Understanding Tube Bending Terminology
- Variables - Springback, Stretch & Gain

- Bend Layout Calculations: Measure Bend, Pre-Measure Then Bend
- Overall Length Calculation to Avoid Wastage
- The Three Marks used in Tube Bending
- Offset Bend Calculations
- Troubleshooting - Tube Bending Defects
- Swagelok® Hand Tube Bender - Practical Activities
- Swagelok® Bench Top Tube Bender - Practical Activities

Certification

Swagelok® Certificate of Completion - Valid for 3 Years

Instructor

Swagelok® Certified Trainers

Training Fee

RM 1,050 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE--TFI

Tube Fitting Installation Inspection Essentials

Designed for technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of small bore tubing and piping systems.

Course Length

1/2 Day

Course Aims

To provide comprehensive understanding on how to mitigate and minimize risk of leakage through proper inspection.

Topics

- Identify correct tube system placement and correctly install Swagelok® Tube Fittings
- Identify mixed component fittings and the use of correct tubing type
- Point out common tube bending defects

- Identify leakage errors and the importance of proper assembly
- Identify compliant NPT thread installations
- Demonstrate the correct use of thread tape

Certification

Swagelok® Certificate of Completion - Valid for 3 Years

Instructor

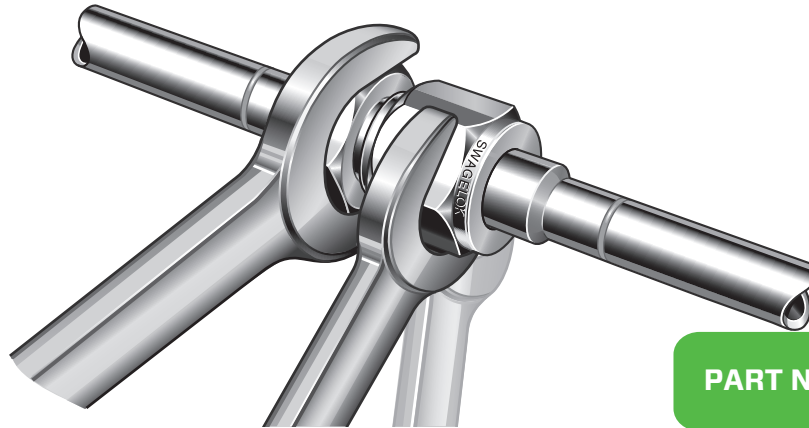
Swagelok® Certified Trainers

Training Fee

RM 1,210 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-TF

Tube Fitting Installation Essentials

Designed for technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of small bore tubing and piping systems.

Course Length

1/2 Day

Course Aims

To provide foundational tube fitting knowledge that will minimize risk of leakage and ensure the integrity of your systems.

Topics

- Proper tubing selection, cutting and deburring
- Assemble Swagelok® tube fittings correctly
- Differences in tube fitting designs, components and the importance of proper assembly
- Identify thread types and installation practices

Certification

Swagelok® Certificate of Completion - Valid for 3 Years

Instructor

Swagelok® Certified Trainers

Training Fee

RM 1,415 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER:SWAGE-SWS

Swagelok® M200 Orbital Welding

Designed for welding technicians or engineers who would like to increase their knowledge on orbital welding specifically using Swagelok® M200 welding equipment.

Course Length

1 Day

Course Aims

To provide delegates with a comprehensive understanding of the Swagelok® M200 power supply and related products. The program will cover set-up and operation, purging procedures, maintenance and troubleshooting techniques. This knowledge will enable you to improve efficiency, and enhance overall production.

Topics

- Basic GTAW principles relating to Orbital Welding
- Understand the features of Swagelok® M200 system
- Identify & rectify electrode faults

- Understand purging & shielding gas techniques
- Correct system set up & fixturing
- Generate weld programs
- Carry out weld evaluation & adjustments

Certification

Swagelok® Certificate of Completion

Instructor

Swagelok® Certified Trainers

Training Fee

RM 1,155 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-IPT

Medium & High Pressure Cone & Thread Essentials

Designed for welding technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of medium and high pressure coned and threaded tubing systems

Course Length

1/2 Day

Course Aims

To provide delegates with a comprehensive understanding of medium and high pressure fittings and related products. To educate our delegates on correct coning and threading procedures, installation, maintenance and troubleshooting techniques.

Topics

- Medium & High Pressure Tubing
- Coned & Threaded Connections
- Medium & High Sealing Features

- Assembly Procedure & Torque Values
- Component Identification
- Needle, Ball & Check Valves
- Safety Consideration
- Tube Preparation & Handling
- Coning, Threading & Installation Practical Activities

Certification

Swagelok® Certificate of Completion

Instructor

Swagelok® Certified Trainers

Training Fee

RM 1,385 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-TF&TB

Tube Fitting Installation & Tube Bending Essentials

Designed for technicians, maintenance and engineering personnel involved in the installation, maintenance, inspection and design of small bore tubing and piping systems.

Course Length

1 Day

Course Aims

To provide delegates with a comprehensive understanding of Swagelok® Tube Fitting and related products. To instruct on installation, maintenance and troubleshooting techniques to increase system efficiency and improve system safety.

Topics

- Safe tube fitting installation procedures
- Understanding leakage and it's implications
- Correct material selection
- Identify component parts required to make a leak free connection

- Correct thread identification and sealing methods
- Metric versus Fractional component part identification
- Tube preparation and handling
- Tube bending

Certification

Swagelok® Certificate of Completion, plus wallet card. Valid for 3 years (Subject to successful completion of both practical & theoretical exam)

Instructor

Swagelok® Certified Trainers

Training Fee

RM 1,925 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-ATB

Advanced Tube Bending

Installers, technicians, maintenance, and engineering personnel seeking to gain valuable knowledge and experience in the theory and practice of tube bending.

Course Length

1.5 Days

Course Aims

Swagelok® Advanced Tube Bending training courses will teach you advanced tube bending theory and practical techniques to help reduce unnecessary connections and potential leak points in fluid systems. Attendees will gain hands-on experience producing accurate, repeatable bends while improving tubing layout, system reliability, and installation efficiency.

Topics

This training program aims to equip trainees with the skills to handle complex tube installations, focusing on:

- Complex interference
- Changes in plane
- Avoiding obstacles
- Difficult angles
- Parallel runs
- Offsets and rolled offsets

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

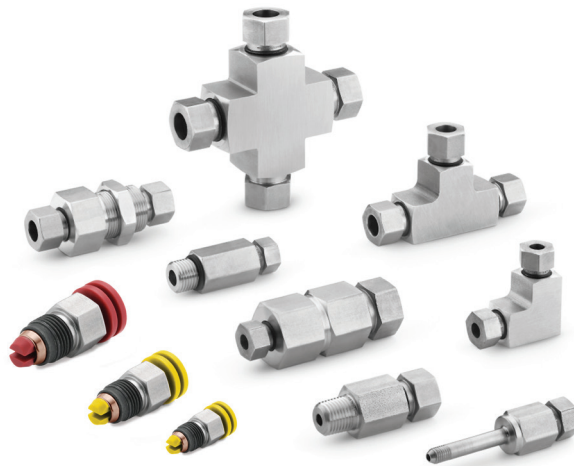
Swagelok® Certified Trainers

Training Fee

RM 3,650 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-FK

FK Fitting Installation Essentials

This course is aimed at technicians, maintenance, and engineering personnel involved in the installation, maintenance, inspection, and design of medium-pressure tubing systems.

Course Length

1/2 Day

Course Aims

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 up to 20 000 psi medium-pressure gas and liquid systems.

Topics

- FK medium-pressure tube fitting
- Tube variables
- Tube preparation
- Initial assembly
- Disassembly and reassembly
- Preswaging
- Knowledge and practical exam

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

Swagelok® Certified Trainers

Training Fee

RM 2,100 per pax

Contact Us

For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-HTFC

Hand Flanged Connections Essentials

Designed for technicians, engineering, and maintenance personnel who need the essential skills and knowledge required to assemble bolted flange pipework connections safely.

Course Length

1/2 Day

Course Aims

Learn the essential knowledge and hands-on skills to safely assemble flanged connections using proper bolt-tightening techniques. Learners will understand key components, standards, and material compatibility; apply correct flange preparation and alignment methods; and follow safe practices using appropriate tools and PPE.

Topics

- Fundamentals of flanged connections
- Preparation and inspection
- Working safely
- Hand torque bolt tightening techniques
- Practical assembly and disassembly activity
- Troubleshooting common issues
- Fault-finding activity
- Knowledge assessment

Certification

Swagelok® Certificate of Completion - Valid for 3 years

Instructor

Swagelok® Certified Trainers

Training Fee

RM 725

**Please enroll for training with at least seven (7) training hours to be eligible for HRDF claims.

Contact Us

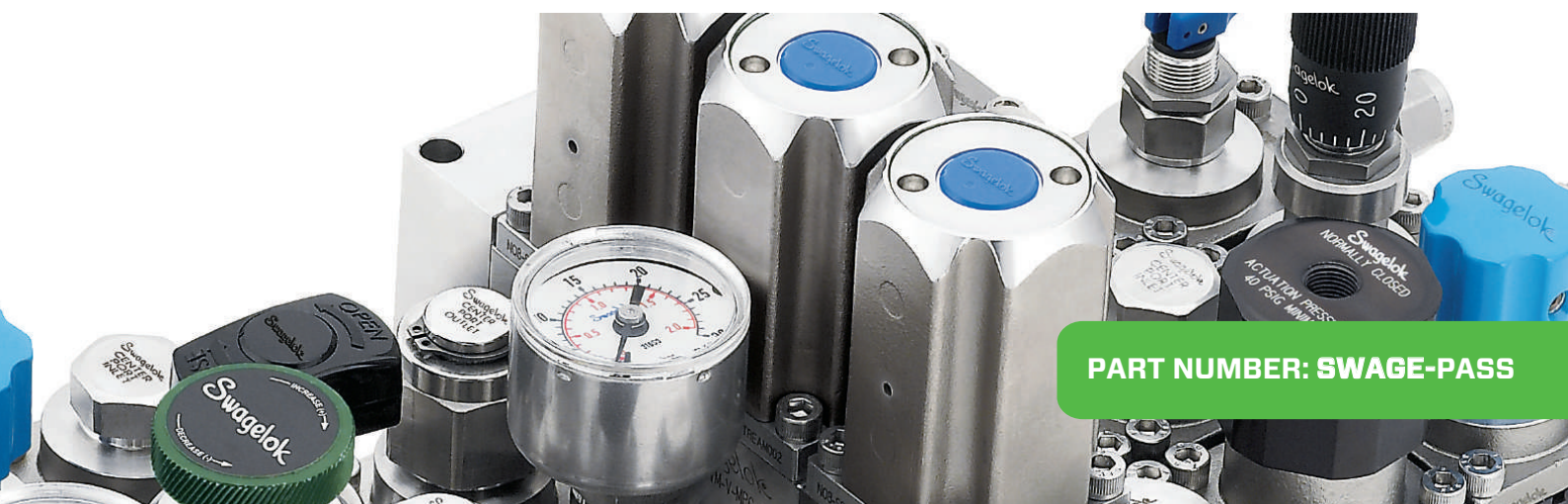
For more information, reach out to our sales associates or email us at malaysiaenquiry@swagelok.com



SWAGELOK PROVIDED CERTIFIED TRAINING COURSE

(Conducted by Certified Swagelok Co. trainer)

As part of our continuing efforts to help customers keep their teams trained on the principles, processes, and materials that go into designing, building, and maintaining high-quality fluid systems, we are offering several courses conducted by certified Swagelok Company trainer, available both physical and online.



Process Analyzer Sampling System (PASS)

Designed for system and design engineers, chemists, integrators, highly trained technicians, and anyone with an engineering background interested in understanding the fundamentals of designing, constructing, operating, or maintaining sampling systems. And, newer team members seeking basic training or experienced professionals who want a refresher.

Course Aims

Swagelok® Process Analyzer Sampling System (PASS) training courses will teach you how to design and optimize process analyzer sampling systems, providing the sound design principles needed to prevent costly sampling system errors. Attendees will learn how to improve process accuracy and optimize analyzer performance.

Topics

- Recognizing and diagnosing sample transport problems
- Calculating pressure drop in a fast loop or return line
- Preventing or controlling phase separation
- Reading and creating sample system schematics
- Designing and building your own sample system

Course Length

5 Days

Certification

Swagelok® Certificate of Completion

Instructor

Course instructors are experts at designing, installing and maintaining sampling systems and include:



Certified Swagelok Field Engineers

Swagelok field engineers located across the globe are certified to teach our sampling system training courses in languages including English, Spanish, Mandarin Chinese, Cantonese, and Bahasa Malaysia.

These field engineers tap into their experience working with customers on sampling system-related matters to inform their teaching of Swagelok PASS and SSM courses.

For further details, visit:

www.swagelok.com/en/services/training/pass

Training Fee

Please reach out to our sales representatives or email us at malaysiaenquiry@swagelok.com for details.



PART NUMBER: **SWAGE-PASS-SUBSYSTEM**

Process Analyzer Sampling System Subsystems

Designed for installers, engineers, designers, QC/QA inspectors, and others responsible for designing, installing, maintaining, and/or inspecting tubing systems in upstream oil and gas applications.

Course Aims

Swagelok® Process Analyzer Sampling System (PASS) Subsystem training courses will teach you how to sharpen your sampling system design skills. Develop an understanding of complex system subassemblies for process analyzer sampling systems, then learn how to design them and build them into complete, optimized sampling systems. This course provides a deep exploration of subsystem components and builds on Swagelok's **Process Analyzer Sampling System (PASS) training**; however, the PASS training course is not a prerequisite.

Course Length

5 Days

Topics

- How to design five subsystems common to all sampling systems:
- Sample extraction
- Field preconditioning

- Sample conditioning
- Calibration switching
- Sample disposal
- How to assemble these subsystems into complete system designs or use them as analytical tools to assess and improve in-service systems
- How to troubleshoot problem designs in the field or on the drawing board

Certification

Swagelok® Certificate of Completion

Instructor

Course instructors are experts at designing, installing, and maintaining sampling systems and include:



Certified Swagelok Field Engineers

Swagelok field engineers located across the globe are certified to teach our sampling system training courses in languages including English, Spanish, Mandarin Chinese, Cantonese, and Bahasa Malaysian.

These field engineers tap into their experience working with customers on sampling system-related matters to inform their teaching of Swagelok PASS and SSM courses.

For further details, visit:

<https://www.swagelok.com/en/engineering-services/training/pass-subsystems>

Training Fee

Please reach out to our sales representatives or email us at malaysiaenquiry@swagelok.com for details.



Sampling System Problem Solving and Maintenance (SSM)

Designed for anyone who diagnoses, troubleshoots and maintains sampling systems, including sampling system and analyzer technicians, maintenance personnel and system engineers. And, Newer team members seeking basic training or experienced professionals who want a refresher.

Course Aims

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 improve sample system performance.

Topics

- Calculating and optimizing sample transport lag (time delay) for liquids and gases
- Selecting and maintaining sample system hardware
- Troubleshooting and improving existing sample system designs

Course Length

2 Days

Certification

Swagelok® Certificate of Completion

Instructor

Course instructors are experts at designing, installing and maintaining sampling systems and include:

Certified Swagelok Field Engineers

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These field engineers tap into their experience working with customers on sampling system-related matters to inform their teaching of Swagelok PASS and SSM courses.

For further details, visit:

www.swagelok.com/en/services/training/ssm

Training Fee

Please reach out to our sales representatives or email us at malaysiaenquiry@swagelok.com for details.



**PART NUMBER: SWAGE-MTRL
SCIENCE**

Materials Science

Designed for engineers, managers, supervisors, buyer or purchasing agents, technical associates, and anyone involved in the material selection process. And, Newer team members seeking basic training or experienced professionals who want a refresher.

Course Aims

Swagelok® Materials Science Training courses teach you how to choose the right corrosion-resistant materials to help you keep your fluid systems leak-tight and operating efficiently. Through this course, you will learn which specific alloys resist corrosion and how they do it, how various materials behave, and how industry standards impact your material choice. Whether you are dealing with sour oil and gas fields or aggressive precursor chemicals for semiconductor manufacturing, a strong understanding of materials science is invaluable.

Topics

- The principles of materials science, corrosion, and other factors affecting material properties
- Different types of corrosion and how specific alloys resist corrosion
- How to select optimal materials of construction for demanding applications based on pressure and temperature ratings, corrosive threats, and compliance
- How to select proper components to address sour gas corrosion and NACE standards

- Critical concepts covering the nature and behavior of materials, including an atom-level view of metals, as well as the microstructural characteristics and mechanical properties of materials

Course Length

2 Days

Certification

Swagelok® Certificate of Completion

Instructor

Course instructors are experts at designing, installing and maintaining sampling systems and include:

For further details, visit:

www.swagelok.com/en/services/training/materials-science

Training Fee

Please reach out to our sales representatives or email us at malaysiaenquiry@swagelok.com for details.



Tubing System Training Program, Chemical and Refining

Designed for installers, engineers, designers, QC/QA inspectors, and others responsible for designing, installing, maintaining, and/or inspecting tubing systems in midstream and downstream chemical and refining applications.

Course Length

2 Days

Course Aims

The Tubing System Training Program for Chemical and Refining Application offers a comprehensive blend of theoretical knowledge and practical skills essential for proficient tube installation and maintenance. It aims to provide invaluable insights into addressing common concerns that often lead to project overruns in industrial settings.

Topics

- Tube Selection, Installation and Routing
- Tube Preparation
- Tube Fitting Installation
- Leakage and Safety Considerations
- Taper and Straight Thread Installation
- Plugs, Caps and Tube Adapters
- MHSU Operation and Maintenance
- Hand Tube Bender, Bending Methods and Offset Bends

- Bench Top Tube Bending
- Tube Fitting Installation Inspection
- Visual Inspection, Troubleshooting and Fault Identification
- Inspection Practical Exercise

Training Materials

All attendees will receive a Swagelok® Tube Fitter's Installer's Guide, Hand Tube Bender manual, and gap inspection gauge for 1/4-inch (6mm), 3/8-inch, and 1/2-inch (12 mm) tube fitting sizes. ®

Certification

Swagelok® Certificate of Completion – valid for 3 years, subject to successful completion of both practical and theoretical exam.

Instructor

Swagelok® Certified Trainers

Training Fee

RM 4,200 per pax

Contact Us

For more information, reach out to our sales associates or email us at

malaysiaenquiry@swagelok.com



Tubing System Training Program, Hydrogen Applications

Designed for installers, technicians, engineers, designers, QC/QA inspectors, and others involved in designing, installing, maintaining, and inspecting tubing systems for hydrogen and small molecule gas delivery systems.

Course Length

2 Days

Course Aims

Imparting knowledge and skills necessary to construct safe, dependable, and leak-tight fluid systems, addressing challenges such as hydrogen's small-molecule nature, potential for leakage, and the need for high-pressure storage in various industrial applications.

The Tubing System Training Program for Hydrogen Applications provides in-depth and comprehensive focus areas beginning with a foundational understanding of H₂ and progressing through critical aspects such as materials science, installation, tube bending, and fitting technologies.

Topics

- What is Hydrogen?
- Hydrogen Compatible Materials

- Risk Mitigation and Best Practices
- Tube Fitting Installation
- Tube Bending
- Tube Fitting Installation Inspection
- Higher Pressure Module
- FK Medium-Pressure Tube Fittings
- Cone and Thread Fittings
- Leak Testing
- Knowledge Test

Certification

Swagelok® Certificate of Completion
- Valid for 3 years

Instructor

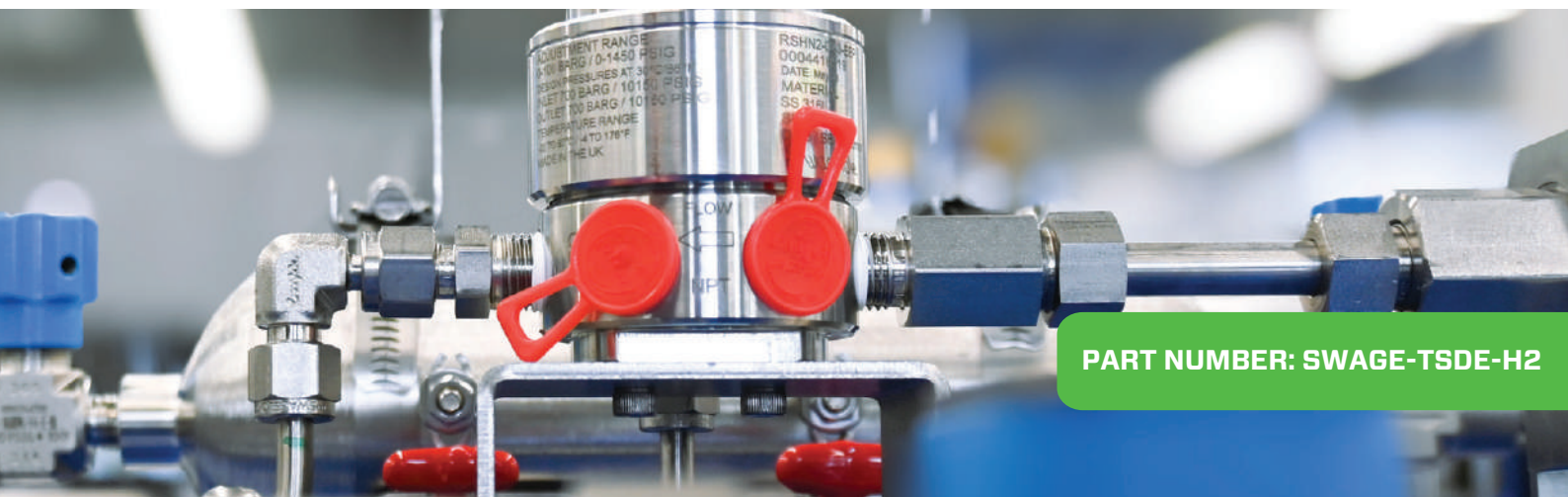
Swagelok® Certified Trainers

Training Fee

RM 4,200 per pax

Contact Us

For more information, reach out to our sales associates or email us at
malaysiaenquiry@swagelok.com



PART NUMBER: SWAGE-TSDE-H2



Tubing System Design Elements, Hydrogen Applications

Designed for existing and graduate design/engineering discipline personnel who require increased awareness of fluid system and small-bore tubing design in accordance industry best practices.

Course Length

2 Days

Course Aims

The Tubing System Design Elements (TSDE) provides in-depth understanding of the design considerations for tubing systems in hydrogen applications.

Topics

- Hydrogen Basics and Myth Busting
- Industry Breakdown
- Industry Standards
- Materials Science
- Tubing System Design Considerations
- System Environment Considerations
- Leak Detection
- System Integrity and Maintenance



Certification

Swagelok® Certificate of Completion
- Valid for 3 years

Instructor

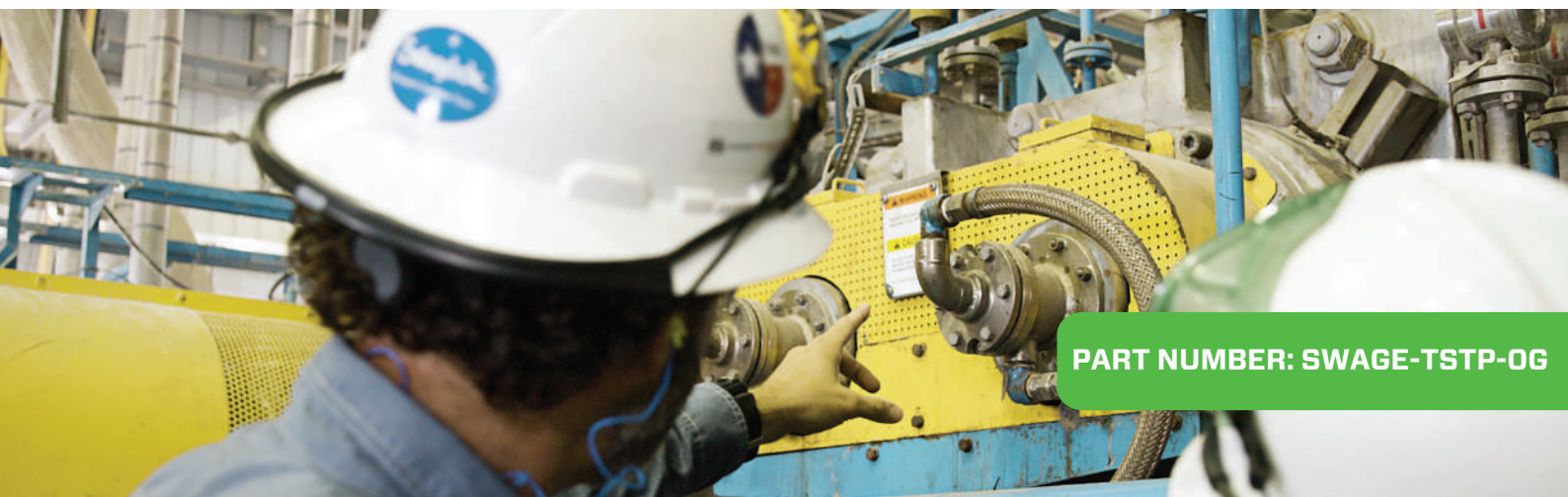
Swagelok® Certified Trainers

Training Fee

TBA

Contact Us

Please reach out to our sales representatives or email us at malaysiaenquiry@swagelok.com for details



PART NUMBER: SWAGE-TSTP-OG

Tubing System Training Program, Oil and Gas

Designed for installers, engineers, designers, QC/QA inspectors, and others responsible for designing, installing, maintaining, and/or inspecting tubing systems in upstream oil and gas applications.

Course Length

2 Days

Course Aims

Addressing JIP33 S-716 requirement and provide in-depth instruction on industry best practices to ensure the high integrity of tubing systems. The Tubing System Training Program for Oil and Gas Application offers a blend of theoretical knowledge and practical skills necessary for proficient tube fitting installation and maintenance. Participants will also gain a deep understanding of the root causes behind project overruns and develop proficiency in troubleshooting and optimizing fluid systems to enhance performance and mitigate risks.

Topics

- Safe installation practices when working with tubing systems
- Correct material selection and engineered combinations
- Correct storage, handling, and preparation of tubing
- Tube installation, routing, and support
- Swagelok® two ferrule tube fitting Installation

- Swagelok® FK series medium-pressure tube fittings and cone and thread Installation
- Tube bending
- Tube fitting installation inspection
- Straight and tapered thread Installation practices
- Safe operation of fluid systems and leak-free performance

Training Materials

All attendees will receive a Swagelok® Tube Fitter's Installer's Guide, Hand Tube Bender manual, and gap inspection gauge for 1/4-inch (6mm), 3/8-inch, and 1/2-inch (12 mm) tube fitting sizes.

Certification

Swagelok® Certificate of Completion – valid for 3 years, subject to successful completion of both practical and theoretical exam.

Instructor

Swagelok® Certified Trainers

Training Fee

RM 4,200 per pax

Contact Us

For more information, reach out to our sales associates or email us at

malaysiaenquiry@swagelok.com



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