

ADVANCED PROCESS ANALYZER TRAINING 2026

July 20-24, 2026
Kuala Lumpur, Malaysia



INSTRUCTOR

STEVE H. SMITH
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By
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PURPOSE

Five (5) Day Analyzer Training Course – Course will focus on basic chemistry, process analyzer sample systems and basic gas chromatography overview. Course will be held in Kuala Lumpur, Malaysia.

AUDIENCE

This course is intended for analyzer technicians, engineers, salespersons who want to start their knowledge with Basic Chemistry & Process Analyzers, as well as the Fundamentals of Sample Conditioning Systems & Gas Chromatography.

This course is open to beginners with minimal experience.

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TRAINING AGENDA

DAY 1 – BASIC CHEMISTRY OVERVIEW AND HOW THIS APPLIES TO PROCESS ANALYZERS

- Analyzer Fundamentals Overview
- Molecular Weight
- Liquid Volume, Mole and Weight Percent Calibration Standards
- Saturated Hydrocarbons
- Unsaturated Hydrocarbons
- Non-Polar and Polar Compounds
- How To Use Basic Chemistry To Troubleshoot Analyzer Problems

DAY 2 – PROCESS SAMPLE CONDITIONING SYSTEM

FUNDAMENTALS

- Sample Conditioning Basic Terminology
- Lag time Calculations – Plug Flow and T90% Response
- Pressure Drop in Sample Systems (Probe to the Analyzer)
- Sample Probes
- Sample Line Design
- Vapor Sample System Overview – All hardware normally found in a vapor sample system is discussed in detail

DAY 3 – PROCESS SAMPLE CONDITIONING SYSTEM FUNDAMENTALS

- Liquid Sample System Overview – All hardware normally found in a liquid sample system is discussed in detail
- Liquid/Vaporizing Sample System Overview – All hardware normally found in a liquid/vaporizing sample system is discussed in detail
- Continuous Emissions Monitoring Systems Sample System Overview
- Sparger Sample System Overview

DAY 4 – BASIC GAS CHROMATOGRAPHY

- GC Overview
- Sample Valve, Column and Detector Overview
- Peak Integration
- Baseline Correction Methods

DAY 5 – BASIC GAS CHROMATOGRAPHY SIMULATION LAB

- Setting up a Method
- Calibration Lab
- Explanation of Backflush Application
- Back Flush Application Lab
- Explanation of Simple Heart-cut Application
- Explanation of Simple Heart-cut / Back Flush Application
- Heart Cut / Back Flush Application Lab

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INSTRUCTOR



STEVE H. SMITH
Smith Analytical LLC, USA



With over 40 years of experience in process gas chromatographs and other analyzers, Steve is a seasoned expert in the field. He has founded two companies dedicated to providing specialized analyzer services to the process industries, particularly in refineries and petrochemical plants.

Steve's extensive experience has enabled him to develop highly effective training courses, which he has conducted across the USA, South America, Malaysia, and the Middle East. In his Gas Chromatography (GC) classes, Steve utilizes a state-of-the-art GC simulator, allowing participants to quickly grasp GC operations through interactive lab learning techniques.

Steve's expertise extends to designing hundreds of process analyzer sample systems, and he holds five US patents related to analyzer measurement technologies and sample system components. Additionally, he serves as an adjunct professor at San Jacinto College in Pasadena, Texas, where he teaches Analytical Instrumentation.

Steve has conducted several Advanced Process Analyzer Training courses in Malaysia since 2014 with over 100 participants.

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METHODOLGY

The training approach is based on principles of adult learning with a focus on peer review during all the steps of the training/learning event.

The course models a variety of effective training methodologies including demonstration, practice, discussion, brainstorming, buzz groups, case studies, visualization and presentation.

Once students have gained the concepts explained and demonstrated in this class, they can begin to apply their knowledge when maintaining or troubleshooting sample conditioning systems.

STRUCTURE

Knowledge sessions, simulation labs, a pre & post assessment

TIME

40 hours technical content

MATERIALS & TOOLS

Each session includes an introduction, learning objectives, participatory methodologies, and activities. A pre/post course assessment and peer feedback form on practice sessions are included.

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SCHEDULE

Start: 9:00 AM on Monday, July 20, 2026

End: 5:00 PM on Friday, July 24, 2026

TRAINING LOCATION

Hotel / Venue Location TBD

Kuala Lumpur, Malaysia

CANCELLATION POLICY

Refund Policy: Fees will be refunded only if you cancel at least 4 weeks before the seminar starts. A processing fee of RM 500 will apply.

Substitute Attendees: You can send a substitute attendee at any time without any extra charge.

Class Cancellation: We reserve the right to cancel any class with low enrollment. If this happens, you will receive a full refund.

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COURSE FEE

Fee: RM 12,000 per attendee (nett).

Payment: Fees must be paid in advance.

Inclusions: The fee covers all instructional materials, textbooks, lunch, and refreshments each day.

CERTIFICATION

Each participant will receive a certificate upon successful completion of the training course, recognizing their achievement.

REGISTRATION

To register for our training course, please email or call us with the following details:

- Name
- Contact number
- Company Name
- Number of Participants Joining

You may also scan our QR code to fill up the form.

Advanced Process Analyzer
Training 2026 by Steve Smith (July
20th - 24th 2026, KL)



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