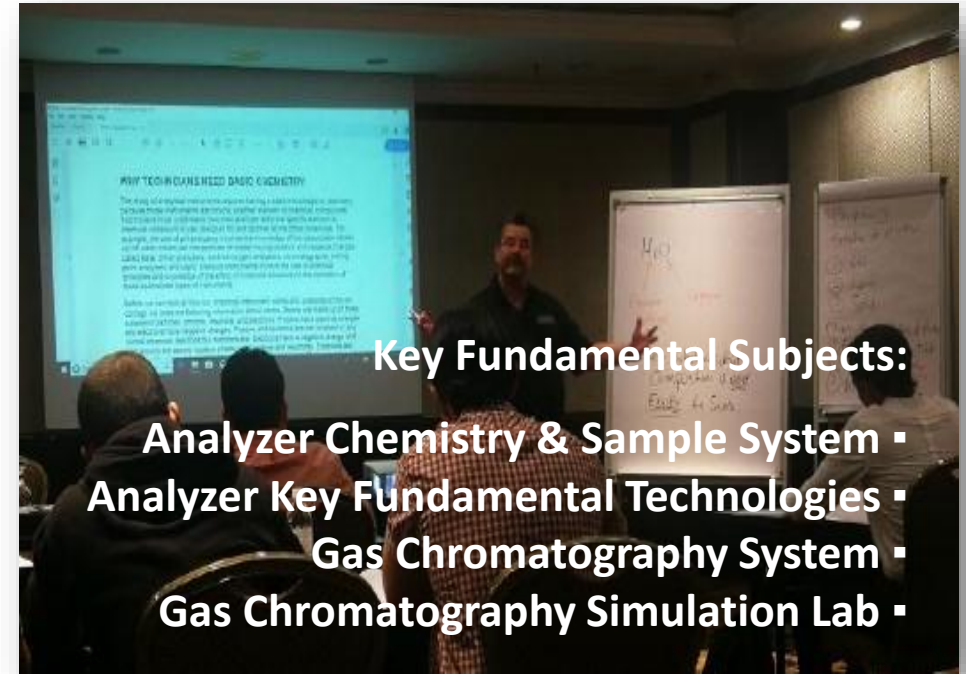


Advanced Process Analyzer Training 2020

April 6-10, 2020
Royale Chulan Damansara
Mutiara Damansara
Selangor, MALAYSIA

Instructor:
Steve Smith
Smith Analytical LLC, USA

www.smithanalytical.com



Key Fundamental Subjects:

- Analyzer Chemistry & Sample System
- Analyzer Key Fundamental Technologies
- Gas Chromatography System
- Gas Chromatography Simulation Lab

"Unique GC Simulation Lab"

- Attendee



Presented By:



Instrumentation & Petroleum Services Asia Sdn Bhd

#3A-02, 8trium Tower 1, Jalan Cempaka SD12/5D, Sri Damansara,
52200 KL, Tel +6.03.6279.9980 sales@ipsa.com.my |
www.ipsa.com.my

Advanced Process Analyzer Training 2020

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Selangor, Malaysia.

IPSA MALAYSIA

IPSA is the premier sales & service provider for process & laboratory analytical - measurement instrumentation.

Representing ECH Water Content, LNI-Swiss Gas Generators, Hoffer Turbine Flowmeter, Tannas-King Refrigerant, Orthodyne Ultrapure GC, Portable Gasmet FTIR Analyzer, Pilodist Crude Distillation, Smith Analytical Analyzer System, Universal Analyzer Sampling Component and Asap LNG Sampler specializing in physical properties petroleum analysis, gas analysis and sample system component.

Established since 1994 and an ISO9001:2015 certified company.

ipsa.com.my

About us

SMITH ANALYTICAL LLC ,USA

Since 2012, Smith Analytical has focused on providing training services at our Clients sites all over the world. In the 3rd Quarter of 2017, Smith Analytical opened their office and training facility located at:

5318 FM 517, Alvin, Texas 77511, USA

Smith Analytical continues to offer training classes at Clients site, they will also be offering a set schedule for these same programs at Smith's office.

In addition to the new office and training facility, Smith Analytical is now offering analyzer engineering, process analyzer sample systems, analytical products, field service support and systems integration services for selected projects.

smithanalytical.com

Never Miss This Opportunity!

Who Need to Attend?

Analyzer Project Engineers
Analyzer Maintenance Engineers
Analyzer Technicians
Analyzer Technical Engineers
Analyzers Trainers
Industry Professionals

Advanced Process Analyzer Training 2020

April 6-10, 2020 | Royale Chulan Damansara, Mutiara Damansara,
Selangor, Malaysia.

Why You Need to Attend?

In this Advanced Process Analyzer Training, participant can explore the true understanding of analyzer fundamentals chemistry, technologies, sample system and GC systems for effective troubleshooting.

Help participant to achieve the cost optimization initiatives to ensure your analyzer reach its highest reliability.

This 5-day training workshop takes attendees through the review, analysis, selection, document development and implementation of practical engineering, troubleshooting, preventive and corrective maintenance for analyzer and GC maintenance initiatives.

Including GC Simulation Lab for Inter-active GC Method Setup, Applications and Problem Solving practice sessions throughout the course.

Advanced Process Analyzer Training 2020

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Selangor, Malaysia.



Steve H. Smith
Smith Analytical LLC, USA

Steve has more than 35 years of experience with process gas chromatographs and other analyzers. He has founded two companies to provide specialized analyzer services to the process industries and is an expert in the application of process analyzers in refineries and petrochemical plants.

Instructor's Profile

Steve developed these training courses from his extensive experience in the field. His presentations are impressive, and have equal appeal with engineers and maintenance technicians. He conducted training in USA, South America, Malaysia and in Middle East

In the gas chromatography class, Steve shall demonstrate his start of the art of GC simulator for the user to quickly understand the GC operations by interactive lab learning technique. He has extensive sample systems expertise comes from designing hundreds of process analyzer sample systems.

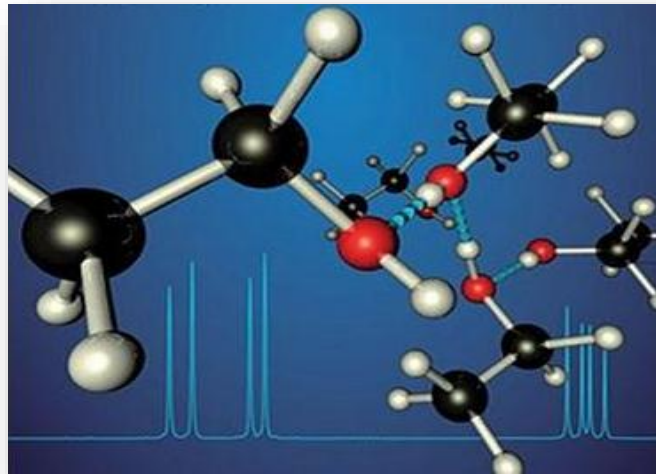
Steve developed 5 US patents on the analyzer measurement technologies and also sample system component. He is also serve as an adjunct Professor at San Jacinto College, Pasadena Texas in Analytical Instrumentation

Agenda

Date & Day	Training Agenda
April 6, 2020 Monday	Registration: 8.30am Class 9am-5pm Develop or expand participant's capacity in understanding the basic chemistry related to process analyzers and sample system overview
April 7, 2020 Tuesday	Class: 9am-5pm Overview of Process Analyzers Key Fundamental by explaining the theory of analyzer technologies
April 8, 2020 Wednesday	Class: 9am-5pm Gas Chromatography fundamentals to capture good knowledge of GC
April 9, 2020 Thursday	Class: 9am-5pm Gas Chromatography Simulation Lab #1 – Hands On and Inter-Active Learning
April 10, 2020 Friday	Class: 9am-5pm Gas Chromatography Simulation Lab #2 – Hands On and Inter-Active Learning
	Certificates of Completion

Advanced Process Analyzer Training 2020

April 6-10, 2020 | Royale Chulan Damansara, Mutiara Damansara,
Selangor, Malaysia.



**analyzer
chemistry**

Syllabus – Day 1

Develop or expand participant's capacity in understanding the basic chemistry related to process analyzers and sample system overview

- Basic Chemistry Overview and How This Applies to Process Analyzers
 - Analyzer Sample System Overview
 - The Effect of Take-Off Probe
 - Transport Time Calculation
 - Calibration System Optimization
- Understanding Stream Switching Technique

Syllabus - Day 2

Overview of Process Analyzers Key Fundamental Technologies by explaining the theory of analyzer technologies, thus enabling effective troubleshooting & maintenance.

Method of Oxygen Gas Measurement Technology

Flame Ionization Detector Technology

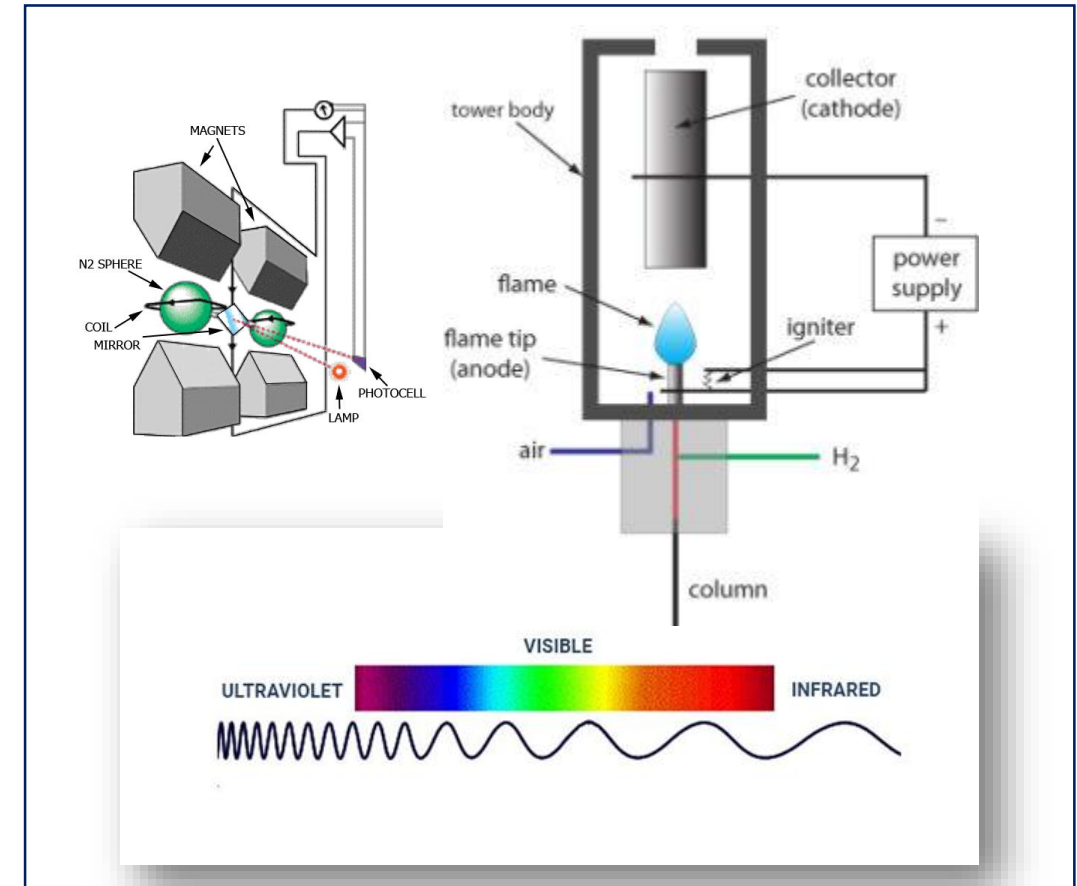
Thermal Conductivity

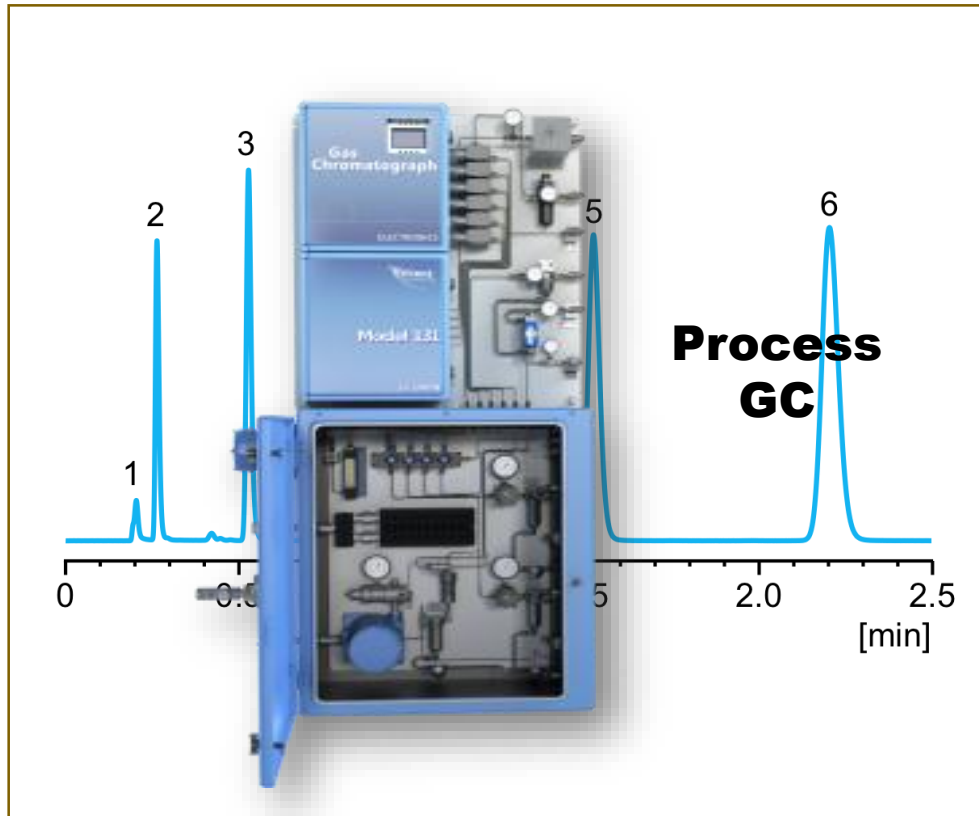
Detector Technology

Infrared Measurement Technology

UV Measurement Technology

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Selangor, Malaysia.





Syllabus – Day 3

Gas Chromatography fundamentals to capture good knowledge of GC

GC Overview – Hardware & Software System
Sample Injection Valve, Column and Detector
Overview

Understanding of Mobile & Stationary Fluid
Phase

Peak Integration, Retention Time & Calculation
Baseline Correction Methods

Syllabus - Day 4

Gas Chromatography Simulation Lab #1 - Hands On and Inter-Active Learning

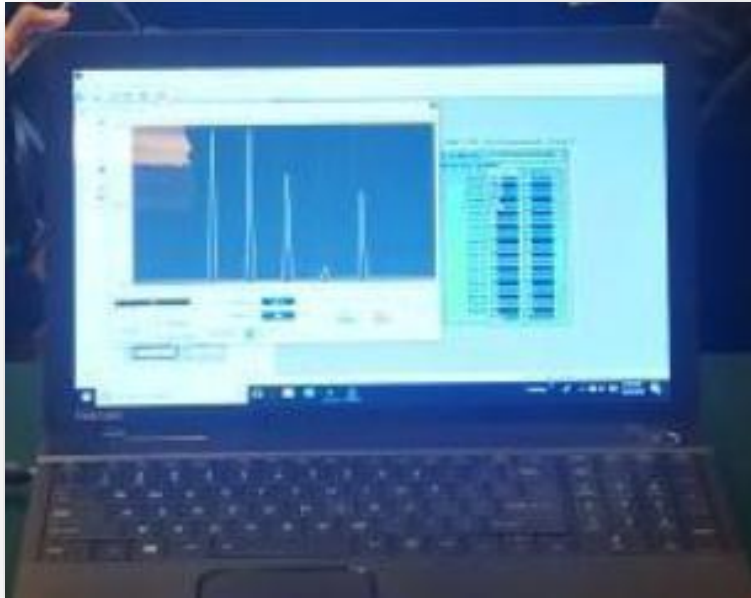
Setting up a Method based on measurement
Calibration Lab 1 - Simulation Practice
Calibration Lab 2 – Simulation Practice
Detail Explanation of Backflush Application
Intensive Back Flush Application Lab Practices

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GC Simulation Lab Software

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Selangor, Malaysia.



GC Simulation Lab Software

Thanks for Attending!

Syllabus – Day 5

Gas Chromatography Simulation Lab #2 – Hands On and Inter-Active Learning

Detailed Explanation of Heart-Cut
Application

Heart Cut / Back Flush Application Lab
Practices

Troubleshooting & Best Maintenance
Practice Discussion

Friday Finale Event

CERTIFICATES

A Certificate of Completion will be awarded to each
participant who completes the course

Terms & Conditions

Training

Advanced Process Analyzer Training 2020

April 6-10, 2020 – 5 Days

The Royale Chulan Damansara Hotel, Mutiara
Damansara, Selangor
MALAYSIA

Price: RM7995 nett per attendee

Tuition fees are payable in advance of attendance, and include all instructional materials, student workbooks, lunch & refreshments each day.

Cancellation:

Fees will be refunded only for cancellations received two weeks prior to the seminar start date. A processing fee of RM500 will be charged. Substitute attendees will be accepted at any time without charge. We reserve the right to cancel any class with low enrolment. If so, your fees will be refunded in full.

Thank you

Register Now!

Registration Form

Company:	
Address:	
Tel:	Fax:
E-mail:	
Contact Person:	
1. Name: Contact: E-mail:	
2. Name: Contact: E-mail:	
3. Name: Contact: E-mail:	

Kindly send your registration form to: sales@ipsa.com.my
Attention: Ms Noorbeyana Abadi Tel: +603-62799980

Instrumentation & Petroleum Services Asia Sdn Bhd

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