

AGENDA

PRINCIPLES OF PROCESS ANALYZERS, SAMPLE SYSTEMS AND CHROMATOGRAPHY



Course Objective:

This two-day class is designed for engineers, analyzer technicians and other roles within the hydrocarbon processing industry whose responsibility it is to work with process analyzers, sample conditioning systems and gas chromatographs. The course will review principles of operation, design and best practices and will provide students with an introductory knowledge of the topics covered.

Topics Covered:

PROCESS ANALYZERS

- Physical Property Analyzers
- Moisture Analyzers
- pH Analyzers
- Conductivity Analyzers
- Oxygen Analyzers
- Photometric Analyzers
- H₂S Analyzers

SAMPLE SYSTEMS AND METHODS

- Insitu
- Extractive
- Design Objectives
- Sample Best Practices & Design
- Six Rules of Successful Sampling
- Sample Transport Systems
- Lag Time
- Sample System Hardware (Flowmeters, Regulators & Vapor Recovery/Disposal)

GAS CHROMATOGRAPHY

- Analytical Ovens – Functions and Different Types
- Sample Injection Valves
- Separation Columns
- Detectors:
 - Thermal Conductivity Detector (TCD)
 - Flame Ionization Detector (FID)
 - Flame Photometric Detector (FPD)
- Atmospheric Balance
- Chromatography Design, Calibration & Best Practices



FOR MORE INFORMATION VISIT OUR WEBSITE OR CONTACT
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