

Swagelok Pittsburgh | Tri-State Area

# e-FLASH

Your **Sampling System Educational Opportunities** 

Come learn from the unparalleled leaders in fluid-system expertise and training:



Ideal for technicians, maintenance personnel, and system engineers

- Know how to troubleshoot a vast variety of common sampling issues – process line through sample disposal
- Recognize and diagnose design flaws that cause excessive time delay and yield poor samples
- Get the formulas, calculations, and engineering principles that will greatly improve your current troubleshooting practices
- Understand how to optimally maintain your system with fewer errors and better overall integrity



Suited for system/design engineers, chemists, integrators, highly skilled technicians

- Apply our expert design principles to prevent costly sampling system problems
- Know how a sampling system functions from the process line and tap through the transport lines and stream switching, sample conditioning, and analyzer/disposal procedures
- Find out how to identity the root causes of system design troubles
- Grasp how to ensure accurate process analyzer readings



Meant for experienced sampling engineers, design engineers, integrators, and highly skilled technicians

- Develop an understanding of complex system subassemblies
- Master how to design and build subsystems into complete, optimized sampling systems
- Learn the five standard subsystems: Sample Extraction, Sample Disposal, Sample Conditioning, Calibration Switching, Field Preconditioning



**Particularly relevant for those new to sampling... as well as analyzer and laboratory technicians** 

- Hands-on learning that will hone your ability to find and address root causes of challenges
- Evaluate an existing sample and apply gained knowledge to reverse engineer a system
- Get the engineering principles, formulas, and calculations to eliminate system guesswork
- Among multiple other learnings, fully understand the severe and unsafe consequences of inaccurate sampling

Contact us to secure your seat in an upcoming Swagelok Sampling System Training event:

### **Rudy Frank**,

**Director – Strategic Services & Marketing** 

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#### 412.439.1706

## WE DELIVER DIFFERENCE-MAKING SOLUTIONS:

Products Strategic Support Services Application Know-How



### The Brand. The Inventory. The Expertise.

#### WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER



Industry-Best Componentry



Unparalleled Application Knowledge



Masterful Custom Fabrication



Comprehensive Hose Advisories



Expert Safety Training



Proven Inventory Management Support



Extensive Energy Evaluations



Genuine Swagelok Tool Rentals



#### WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:

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