

Swagelok Eastern Australia and New Zealand

TRAINING SERIES - SAMPLE SYSTEM MAINTENANCE



SWAGELOK® TRAINING SERIES

SAMPLE SYSTEM MAINTENANCE (SSM)

OVERVIEW

Our goal is to provide our students with the skills and knowledge necessary to make every analyser system they design or install safe, reliable and trouble-free, providing a representative sample to your analyser.

This seminar is widely recognised throughout industry as an initial training program for analyser systems, giving participants a stronger understanding of the key aspects to sample system design, performance and troubleshooting techniques.

DETAILS

Date	Wednesday 24th October - Thursday 25th October 2018
Duration	2 x 8 hour days 8.00am - 4.00pm
Venue	Quality Hotel Plymouth International Cnr Courtenay & Leach Streets New Plymouth
Participants	12 maximum
Cost	\$1490.00 per person

Seminar Style

Seminars are conducted with attendees encouraged to participate with examples of real life challenges and problems.

Venue/Equipment

A room with a screen and whiteboard is preferable.

Supplied Materials

Course Working Book & Reference Text

Suitable Attendees

This seminar has been developed specifically for anyone involved in the installation, design, fabrication and maintenance of analyser systems.

Swagelok training prepares analytical instrumentation technicians and maintenance personnel to catch mistakes before they happen and recognise existing problems in installed sampling systems.

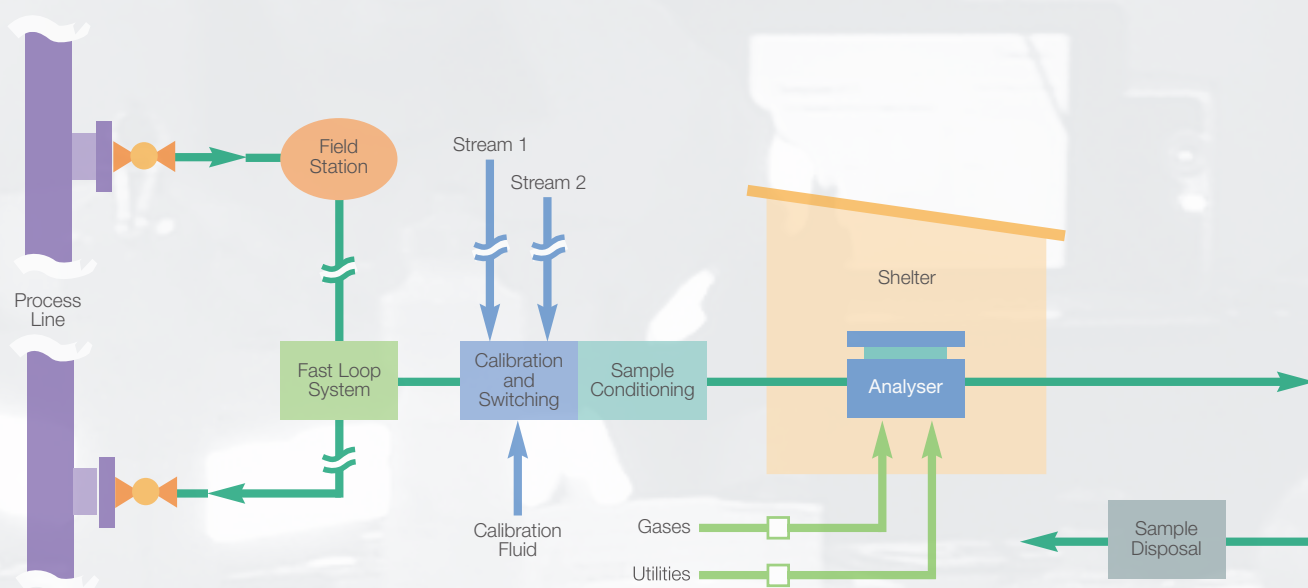
“Our training and education programs have supported our customers in the development of their staff, which is critical with the loss of experience we see in industry today.

The SSM Training provides essential skills in understanding systems and issues that can occur.”

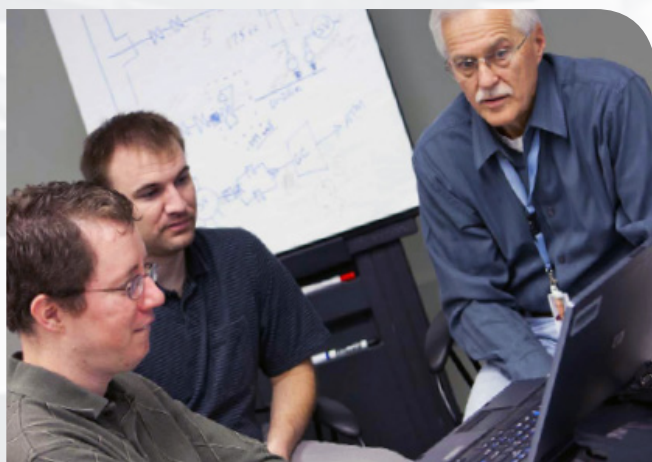


Michael Frost
Asia Pacific Manager
Swagelok Field Engineering





This two day training course covers aspects of a sample system, from process line and tap through transport lines, stream switching, sample conditioning, analyser and disposal.



COURSE SCHEDULE

DAY 1

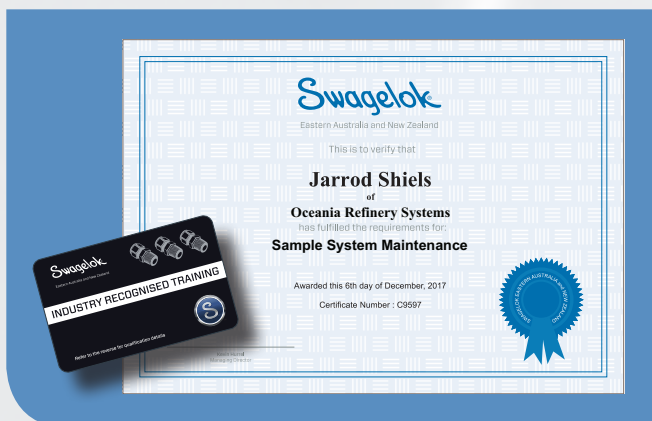
Fundamentals: Classwork & Basic Exercises

- I. Performance of Sampling Systems
 - Maintenance techniques
 - Sample compatibility with analyser
 - Time delay of sampling
 - Mixing and contamination
- II. Diagnosing and Fixing Time Delay Problems
 - Sample transport time calculations for liquids and gases
 - Gas compressibility and time delay
- III. System Components
 - Flow valve basics and the effects of water hammer
 - Pressure measurement devices
 - In-depth look at pressure regulators and common problems
 - Pumps and temperature regulation

DAY 2

Sample Conditioning Techniques

- Proper use of filters and coalescers
- Understanding and controlling phase change
- Liquid, vapour and gas separation devices
- Design of field stations and fast loops
- Troubleshooting sampling systems
- Group projects





CONTACT INFORMATION

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