



First Select

Enhancing Interpersonal Skills

Date	Venues	(\$)Fees	Book your seat
21 Dec -25 Dec 2025	Jakarta	3300	Register Now

Objectives:

By the end of the program, participants will be able to:

- A greater understanding of why and how separations techniques work as they do
- An ability to select and employ appropriate separations methods for various analysis problems
- An aptitude for making the calculations necessary in utilizing the various separation techniques. Having met these goals, you will be able to effectively employ chromatography and other separations methods in your research.

Who should attend?

Analytical chemists, laboratory supervisors, laboratory technicians, GC technicians, research and development scientists, instrument specialists, and quality assurance/control managers.

Course Outline:

Day 1

- Introduction to separation science
- Separations theory and calculations
- Column Systems
- Packed and capillary
- Performance evaluations, how they are made
- Liquid phases/selection/temperature limits
- Solid supports
- Adsorbents, molecular sieves
- How to select the type of columns required for plant application
- Isothermal/temperature programming
- Compatibility, operating tips
- Installation of columns, trouble-shooting, gas flow adjustments
- Linear velocity thru capillary column
- Operational tips
- Column behavior
- Maintenance and trouble-shooting

Day2

- Gas chromatography: hardware and methods
- High performance liquid chromatography: hardware and methods
- Introduction to modern electrophoretic methods of analysis
- Sample preparation
- Biological, environmental, and industrial applications (interspersed among the above)

Day3

- Introduction to Troubleshooting and Preventive Maintenance
- System Familiarization
- Inlet Troubleshooting and Maintenance
- Worksheet Exercise 1

Day 4


- Automatic Liquid Sampler (ALS) Troubleshooting and Maintenance
- Capillary Column Troubleshooting and Maintenance
- Video Segment 2: Column Installation
- Electronic Pneumatic Control (EPC) T&M

Day 5

- Detector Troubleshooting and Maintenance
- Worksheet Exercise 2
- Worksheet Exercise 3
- Data System Troubleshooting and Conclusion

WORKSHOP STYLE:

A mixture of short presentations, interactive discussion, individual exercises and group work. The emphasis throughout is on a practical approach using case material and examples.

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