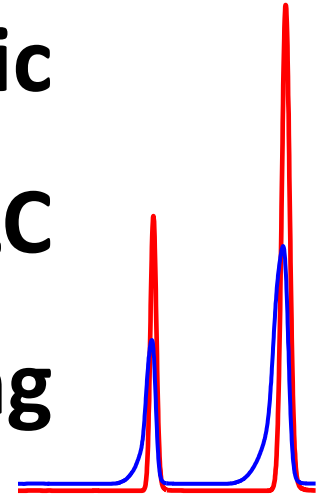


# Systematic HPLC Troubleshooting

*A ONE-DAY TUTORIAL*



## *Is your lab:*

Using HPLC but experiencing frequent problems or downtime?

Struggling with peak shape problems or changing retention times?

Not meeting productivity expectations because not all staff can solve their individual HPLC problems.

Having problems with QC performance?

## *Did you know:*

You are not alone. Many labs struggle to maintain efficient HPLC productivity.

There are many common reasons for these problems.

Good training is your best lab resource. When everyone knows more, they can solve problems more quickly.

The most successful labs know the “Best Practices” that keep the lab running smoothly.

**In this intensive one day session we can help you understand all of these issues, and more, by:**

- **Showing you how to efficiently use both your current methods and instruments and keep them performing well over time,**
- **Providing guidance for how to solve your method and/or instrument problems!**

# Systematic HPLC Troubleshooting

## Outline

- A General Approach to Organized Troubleshooting
  - Why are we here?
  - How do we get started with troubleshooting?
- General Troubleshooting Strategies
  - Troubleshooting concepts
- How to Read a Chromatogram
  - Basic chromatography issues
  - Measuring instrumental and chromatographic parameters
- Integration advice for poorly resolved peaks.
- Troubleshooting analytical results.
- Instrument Troubleshooting
  - Design-related problems in LC
  - Routine maintenance of mobile phases, pumps, columns, and detectors
  - Linking symptoms and solutions with the LC Troubleshooting Matrix
- Best Practices in Chromatography
  - A practical guide to preventing future problems.
- The LC Quiz

## Benefits:

- Gain a better understanding of Best Practices in HPLC.
- Learn about common symptoms and how to solve them.
- Understand how your instrument's design affects its behavior.
- Learn valuable tips and tricks to keep your lab working more efficiently.

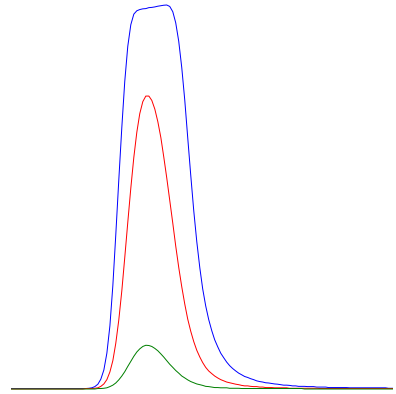
## Who should attend?

- HPLC users at all levels.
- Staff who must review HPLC data.

## Details

Each private seminar provides you with:

- Options for live on-site or remote as two four-hour sessions
- A live expert instructor and time for questions and discussion
- Electronic copy of course notes (pdf format)
- Additional customized consulting and discussion can also be arranged.



## Pricing

Pricing is based on the number of registered students and whether the presentation is on-site or remote. Please contact us for a specific quote.  
[Discounts are available for groups of 6+.]

- PO required to schedule event.
- Payment terms Net 30
- Discounts for multiple sessions are available

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*"Good training is your best lab instrument."*