

OTC-04

# HPLC Online Training

## The Fundamentals of HPLC

### Course Description

For the chromatographer those wishing to update their skills, this course covers the fundamentally important concepts in modern HPLC analysis.

Basics of the chromatographic process, sample preparation, inlet systems, pumps, column and detector selection are important topics covered to give the participant a thorough grounding in the technique. Instrument hardware is also covered with basic troubleshooting and maintenance tips as well as an introduction to chromatographic optimization.

### Course Content

- Basic Principles of the Chromatographic Process
- Overview of System Components
- Main Mechanisms of HPLC
- Eluents and solvents choosing considerations
- Principles, Choice of Technique, Operation.
- Column Theory and Stationary Phase Considerations
- Detectors - Choice and Operation (including UV, DAD, Fluorescence,..)
- Basic Maintenance and Troubleshooting
- Introduction to analytical method development.

### Course Duration

- 12hours/4 days/3 hours per day



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