



## GC Technical Training

**Module Name:** GC Sample Introduction - Basic

**Time Allocated:** 1.5 - 2 hours

**Intended Audience:** This module assumes no previous gas chromatography knowledge.

### Content Covers:

- Explanation of split injection
- Inlet liner selection for split injection
- Explanation of splitless injection
- Inlet liner selection for splitless injection
- Explanation of mass discrimination
- Liner design explained
- Inlet liner deactivation
- Ferrule selection
- Septum selection

### At the completion of this seminar, attendees should be able to:

- Explain the difference between split / splitless, on-column and PTV injectors and what situations suit each type
- Demonstrate an understanding of the role of liners, septa and ferrules choice on the overall "system performance"
- Make a choice regarding most appropriate liner selection
- Calculate split ratio
- Be able to diagnose a chromatogram from an analysis of symptoms
- Appreciate when inlet liner deactivation is most critical
- Explain the process of column installation at both injector and detector end and why different ferrule materials are used