smiths detection
bringing technology to life

IONSCAN®-LS Two-Day Training Course Agenda
Breakfast and welcome from 8 to 8:30 AM
Course starts promptly at 8:30 AM, ends at 5:30 PM.

- **Module 1: Introduction, General Operation of IONSCAN®-LS**
  - **Theory of ion mobility spectrometry (IMS)**
  - **How the IONSCAN Works**
  - **Plasmagram interpretation**
  - **Daily start-up and shut-down**

- **Module 2: IM-Station Software**
  - **21 CFR Part 11 compliance**
  - **User accounts and access levels**
  - **Electronic signatures**
  - **Audit Trail**
  - **Logging In**
  - **Selecting, viewing and editing methods**
  - **Collecting data**
  - **Data Reduction**

- **Lab Exercise 1**
  - **Logging in**
  - **Manual Sample Analyses**
  - **Programming Peaks**

- **Module 3: Autosampler Operation**
  - **Autosampler Set Up**
  - **Programming the Autosampler**
  - **Autosampler System Parameters**
  - **Autosampler Method Parameters**
  - **Operating the Autosampler**
  - **Appendix: Syringe Volume Calibration**

- **Lab Exercise 2**
  - **Autosampler Operations**
  - **Data Reduction**

- **Module 4: HPI Operation**
  - **HPI Operation**
  - **HPI System Parameters**
  - **HPI Method Parameters**
  - **Running an HPI Method**
  - **Appendix: Creating an HPI Bakeout Method**

- **Lab Exercise 3**
  - **HPI Operation**

- **Module 5: Analysis Optimization with Teflon® Substrate**
  - **Basic method development steps**
  - **How to Improve Precision**
  - **Limit Test**
  - **How to Handle Interferences**
  - **Method Transfer Considerations**

- **Module 6: Analysis Optimization with HPI**
  - **HPI Method Parameter Toolbox**
  - **Organic solvents**
  - **Aqueous samples**
  - **Separating interferents**
  - **Split injections**
  - **HPI Method Optimization**

- **Lab Exercise 4**
  - **Negative ion mode, programming a peak**

- **Module 7: Safety, Maintenance and Troubleshooting**
  - **Safety**
  - **Maintenance of IONSCAN®-LS**
  - **Maintenance of Autosampler**
  - **Maintenance of HPI**
  - **Troubleshooting Guide**

- **Lab Exercise 5**
  - **Maintenance**
  - **Radiation Leak Testing**
  - **Method Development**
  - **Q&A**