

## Advanced LC-MS Method Development At Customer Site

At SCIEX, our Success Technology Programs follow the proven spaced learning approach to maximize learning retention. The training process includes a unique blend of self-paced eLearning, instructor led and hands-on training provided at the customer site.

### COURSE GOALS AND OUTCOME:

This SCIEXUniversity course provides a variety of instructor led training and hands-on laboratory exercises, and finishes with a Method Development Challenge. It is intended for those who have completed a SCIEXUniversity Success Program, or have significant operational experience with SCIEX LC-MS systems.

This course is intended to provide a user with the knowledge necessary to successfully perform LC-MS method development.

Upon completing the course, the student should be comfortable with optimizing compound and source method parameters in both ESI and APCI modes, using advanced MS method parameters, understanding quantitation parameters, using outlier settings, metric plots, reports and queries, and developing an LC method.

### TRAINING PROGRAM OVERVIEW:

Your Success Technology Training includes the following:

- 2 days of instructor led and hands-on training provided at your site by an Applications Support Scientist
- Related self-paced eLearning courses, lectures, reference material and lab exercises
- Complimentary follow-up WebEx session with an Applications Support Scientist
- Workflow certification upon successful completion of final exam
- Access to SCIEXUniversity database of >100 eLearning courses

- Access to SCIEXNow™ online support tools available for up to 3 Learners

### ONSITE INSTRUCTOR LED TRAINING TOPICS:

- **ESI MS Method Development**
  - ESI compound optimization
  - ESI source and gas optimization
- **APCI MS Method Development**
  - APCI compound optimization
  - APCI source and gas optimization
- **Advanced MS Method Parameters**
  - Scheduled MRM™ Pro Algorithm
  - Multiple experiments and periods
  - Scheduled-ionization
  - Detuning
- **HPLC Method Development**
  - Column and buffer selection
  - Injection volume and sample loop
  - Gradient optimization
  - Peak shape issues
- **Quantitation Troubleshooting and Reporting**
  - Important MQ4 and SignalFinder™ integration parameters
  - Outlier settings
  - Ion ratios
  - Metric plots
  - Creating reports
  - Using queries in reports and results tables
- **Method Development Challenge**
  - Practical exercise designed to test method development skills

The LC-MS system must be installed and configured before the training. Refer to the [Required Consumables for Advanced LC-MS Method Development Training Course at Customer Site](#) document for consumables that you must provide for use during the training.

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