

## Introduction to MS Maintenance 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 hands-on MS Maintenance exercises. It is a locally delivered program by an experienced SCIEX Service Engineer. It is supported by a series of easy-to-use Quick Reference Guides.

It is intended for those who have completed a SCIEXUniversity Success Program, or have some operational experience with SCIEX LC-MS systems.

This course is intended to provide a user with the knowledge necessary to successfully perform basic and advanced MS maintenance tasks, and tune and calibrate the MS instrument.

Upon completion of the course, you will have a deeper understanding of MS maintenance and instrument optimization. This will enable you to increase your lab's productivity and uptime of your LCMS system, and reduce the need for engineer call outs or remote assistance.

### TRAINING PROGRAM OVERVIEW:

Your Success Technology Training includes the following:

- 1 day of instructor led and hands-on training provided at your site by a Service Engineer
- 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:

- **MS Maintenance**
  - Front end cleaning under vacuum
  - Front end cleaning at atmospheric pressure
  - Ion guide cleaning
  - Replace or add pump oil
  - Replace air filter – where applicable
- **Ion Source Maintenance**
  - Replace the source electrode (APCI or ESI probes) – where applicable
  - Replace the source heater
  - Replace the APCI corona discharge needle – where applicable
- **MS Optimization**
  - Manual tuning and calibration
  - Automated instrument tuning and calibration

The LC-MS system must be installed and configured before the training. It is preferred that the training is combined with a PM visit so that some consumable parts can be used as training aids. However, if this is not possible, refer to the [Required Consumables for Introduction to MS Maintenance at Customer Site Training Course](#) document for consumables that you must provide for use during the training.

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