

Agenda for 2.5 day advanced LC-MS maintenance and troubleshooting at SCIEX

SCIEX training courses follow the proven spaced learning approach to maximize learning retention. The training process includes a blend of instructor-led training, hands-on laboratory exercises and self-paced eLearning provided at a SCIEX location.

Course goals and outcome

This course is intended for those who have completed a Success Program or have significant operational experience with SCIEX LC-MS systems. It is designed to provide experienced users with the knowledge necessary to successfully troubleshoot and fix common MS and HPLC issues. You will also learn how to proactively maintain your LC-MS system, and how to exchange various consumable parts to keep your system running properly.

The course provides a variety of hands-on troubleshooting and maintenance exercises, best practices and finishes with a troubleshooting challenge for the learner. It is delivered at a SCIEX location by an experienced SCIEX instructor, and is supported by a series of easy-to-use Quick Reference Guides.

Upon completing the course, you should be comfortable with performing basic and advanced HPLC and MS maintenance, tuning and calibrating the mass spectrometer, troubleshooting common HPLC and MS issues, understanding quantitation parameters, and using outlier settings and metric plots to identify issues with the data results.

This can lead to an increase in the productivity and uptime of your LC-MS system, and reduce the need for engineer call outs or remote assistance. You will gain knowledge of which consumables to keep on-site to increase your system uptime.

This course offers a workflow certificate upon completion of a final knowledge assessment.

Course agenda

DAY 1

- **Lecture:** Introduction
- **Lab exercise:** Instrument tuning
- **Lab exercise:** MS system maintenance
- **Lab exercise:** LC pump maintenance

DAY 2

- Knowledge review and discussion
- **Lab exercise:** LC pump maintenance
- **Lab exercise:** LC autosampler maintenance
- **Lab exercise:** LC system tests
- **Lab exercise:** LC-MS system function test
- **Lecture:** LC-MS best practices, troubleshooting and maintenance

DAY 3

- Knowledge review and discussion
- **Lab exercise:** MS and LC troubleshooting challenge
- **Lab exercise:** Using quantitation software to simplify troubleshooting
- Knowledge evaluation

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