

Syllabus for success solution for the M5 MicroLC system

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 the customer site.

Course goals and outcome

This course is intended for learners who have completed a SCIEX Now Learning Hub Success Program, or have significant operational experience with SCIEX LC-MS systems. This course is designed to improve your confidence in using your M5 MicroLC system.

Upon completing this course, you should be able to successfully set up the system for microflow LC, perform analysis using direct injection and trap and elute methods for the M5 MicroLC system, and troubleshoot the LC-MS system.

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

Training program overview

Your training includes the following:

- 5 hours of instructor-led and hands-on training provided at the customer site by a Service professional
- 2 days of instructor-led and hands-on training provided at the customer site by an experienced Applications Support Scientist
- Related self-paced eLearning courses, lectures, reference material and lab exercises
- Complimentary follow-up virtual session with an Applications Support Scientist
- Access to SCIEX Now Learning Hub database of >100 eLearning courses
- Access to SCIEX Now online support tools available for up to 3 learners
- Hands-on focus for 1 Primary learner and up to 3 learners total for demonstration and content
- Workflow certificate upon successful completion of final exam and permanent access to all course materials for reference
- P.A.C.E.[®] Continuing Education Credits

Instructor-led training topics

- System overview
 - Changing solvents
 - Making connections
 - System maintenance
 - Verifying system performance
- Introduction to microflow LC
 - Theory and benefits
 - Modifying your method
 - Hardware requirements
 - Best practices
- Perform source and gas optimization
- Plumbing the injection valve
 - Direct injection
 - Trap and elute
- Creating LC and MS methods for SCIEX OS software (if applicable)
 - Direct injection LC method
 - Trap and elute LC method
 - MS method
- Creating methods for Analyst software (if applicable)
 - Direct injection pump method
 - Trap and elute pump method
 - Autosampler method
 - Analyst acquisition method
- Troubleshooting microflow LC
 - LC best practices and maintenance
 - MS best practices and maintenance
 - Common LC-MS problems and troubleshooting techniques
- Troubleshooting challenge
 - Practical exercise designed to test troubleshooting skills

The LC-MS system must be installed and configured before the training. Refer to the **Required consumables for success solution for the M5 MicroLC system** document for consumables that you must provide for use during the training.

P.A.C.E.[®] certification

SCIEX is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.[®] Program. Learners interested in obtaining a P.A.C.E.[®] certificate and P.A.C.E.[®] accreditation for taking this course (equal to 12 P.A.C.E.[®] credits) must attend the entire training session and complete a brief evaluation survey.

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