# Syllabus for 3 day TripleTOF training for small molecule workflows 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 designed to provide new users with an overview of the main quantitative and qualitative workflows for small molecule analysis on TripleTOF systems. It is delivered at a SCIEX location by an experienced SCIEX instructor using a combination of instructor-led and hands-on approaches.

The course covers software familiarization, instrument tuning and calibration, compound and method optimization, creation of MRM$^{HR}$, IDA and SWATH methods for quantitative, targeted and non-targeted workflows, using MultiQuant or SCIEX OS-Q for data processing, and finally instrument maintenance and troubleshooting.

Upon completion of the course, you should be comfortable with performing instrument tuning and calibration, optimizing compound and source parameters, creating MRM$^{HR}$, IDA and SWATH methods, performing data acquisition and data processing for both targeted and non-targeted qualitative workflows, and maintaining your instrument.

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

## Training program overview

Your training includes the following:

- 3 days of instructor-led and hands-on training provided at a SCIEX location by an experienced instructor
- Related self-paced eLearning courses, lectures, reference material and lab exercises
- Access to SCIEX Now Learning Hub database of >100 eLearning courses
- Access to SCIEX Now online support tools

- 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

- Fundamentals of high resolution mass spectrometry
- Mass spectrometer tuning and calibration
- Compound optimization for quantitative workflows
- Creation of LC-MS acquisition methods:
  - MRM$^{HR}$
  - IDA
  - SWATH acquisition
- Batch creation and submission
- Quantitative data processing for MRM$^{HR}$ using MultiQuant or SCIEX OS-Q software
- Qualitative & quantitative data processing for targeted and non-targeted workflows
  - IDA
  - SWATH data
- Instrument maintenance

## 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.

SCIEX

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