

Agenda 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.

Course agenda

DAY 1: 9.00 – 17:00*

- **Lecture:** TripleTOF system technology
- **Lecture:** LC-MS theory and TOF scans
- **Lab exercise:** Analyst TF software overview and hardware familiarization
- **Lecture:** Sample introduction and ionization techniques
- **Lecture:** Mass calibration and instrument optimization
- **Lab exercise:** Instrument tuning and calibration

DAY 2: 9.00 – 17:00*

- Knowledge review and discussion
- **Lecture:** Acquire mode, Method Wizard and acquisition batches
- **Lab exercise:** IDA acquisition and data processing
- **Lab exercise:** SWATH acquisition and data processing for targeted and non-targeted workflows
- **Lab exercise:** Creating targeted IDA and MRM^{HR} methods

DAY 3: 9.00 – 17:00*

- Knowledge review and discussion
- **Lecture:** Quantitation basics
- **Lab exercise:** Quantitative data processing using MultiQuant or SCIEX OS-Q software
- **Lab exercise:** MS and computer maintenance
- Knowledge evaluation and survey wrap up

**Timings are approximate and may vary*

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