Agenda for 4 day LC-MS method validation virtual

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 in a virtual format.

Course goals and outcome

This course is designed to provide intermediate to advanced learner with the knowledge necessary to successfully validate an LC-MS/MS assay on SCIEX systems. It is intended for those who have completed a Success Program, or have significant experience with SCIEX LC-MS systems.

This training is a mixture of synchronous and asynchronous training delivered over 4 days. Daily video conferencing sessions will be conducted by an instructor to explain and demonstrate each topic. Exercises and data files are provided to allow you to practice the principles demonstrated during the instructor-led sessions at a later time at your own pace.

Upon completion of the course, you should understand validation principles and parameters, be able to perform sample preparation, review data, and troubleshoot some common issues encountered during method validation.

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

Course agenda

DAY 1: 3 hours

- **Lecture**: Introduction to method validation
- **Lab exercise**: Selectivity and specificity
- **Lecture**: Linearity, sensitivity, accuracy and precision
- **Lab exercise**: Linearity, sensitivity, accuracy and precision

DAY 2: 3 hours

- Recap of day 1
- **Lecture**: Recovery, matrix effects and dilution effects
- **Lab exercise**: Recovery, matrix effects and dilution effects in method validation
- **Lecture**: Stability
- **Lab exercise**: Standard stability in method validation

DAY 3: 3 hours

- Recap of day 2
- **Lecture**: Carryover and contamination
- **Lab exercise**: Carryover and contamination in method validation
- **Lecture**: System suitability test
- **Lab exercise**: LC-MS/MS system suitability test in method validation

DAY 4: 3 hours

- Recap of day 3
- **Lecture (optional)**: Robustness for GMP method validation
- **Lecture (optional)**: Correlation and method comparison
- **Lecture (optional)**: Audit trail overview
- **Discussion group**: Troubleshooting validation issues

**Timings are approximate and may vary*

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