

Syllabus for 1 day introduction to MS maintenance at customer site

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. It should provide you with the knowledge necessary to successfully perform basic and advanced MS maintenance tasks, and tune and calibrate the MS system. It consists of a variety of hands-on MS maintenance exercises delivered by an experienced SCIEX Service professional, and is supported by a series of easy-to-use quick reference guides.

Upon completion of the course, you will have a deeper understanding of MS maintenance and instrument optimization. This will enable you to increase your lab's productivity and uptime of your LC-MS system, and reduce the need for engineer call outs or remote assistance.

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

Training program overview

Your training includes the following:

- 1 day of instructor-led and hands-on training provided at the customer site by a Service professional
- Complimentary follow-up virtual session with an Applications Support Scientist
- 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 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

- MS maintenance
 - Front end cleaning under vacuum
 - Front end cleaning at atmospheric pressure
 - Ion guide cleaning
 - Replace or add pump oil
 - Replace air filter – where applicable
- Ion source maintenance
 - Replace the source electrode (APCI or ESI probes) – where applicable
 - Replace the source heater
 - Replace the APCI corona discharge needle – where applicable
- MS optimization
 - Manual tuning and calibration
 - Automated instrument tuning and calibration

The LC-MS system must be installed and configured before the training. It is preferred that the training is combined with a PM visit so that some consumable parts can be used as training aids. However, if this is not possible, refer to the **Required consumables for 1 day introduction to MS maintenance at customer site** 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 6 P.A.C.E.® credits) must attend the entire training session and complete a brief evaluation survey.

The SCIEX clinical diagnostic portfolio is For In Vitro Diagnostic Use. Rx Only. Product(s) not available in all countries. For information on availability, please contact your local sales representative or refer to www.sciex.com/diagnostics. All other products are For Research Use Only. Not for use in Diagnostic Procedures.

Trademarks and/or registered trademarks mentioned herein, including associated logos, are the property of AB Sciex Pte. Ltd. or their respective owners in the United States and/or certain other countries (see www.sciex.com/trademarks).

© 2021 DH Tech. Dev. Pte. Ltd. GEN-CST-05-8169-B



Required consumables for 1 day MS maintenance at customer site

Our training courses follow the proven spaced learning approach to maximize learning retention. This training course includes a unique blend of self-paced eLearning, instructor led and hands-on MS maintenance exercises provided at the customer site. For this training to be successful, the LC-MS system must be installed and configured before the training. It is preferred that the training is combined with a PM visit so that some consumable parts can be used as training aids. However, if this is not possible, you must provide consumables for use during the training. **Table 1** details consumables that are applicable to all systems, and **Table 2** details consumables that are only applicable to selected systems.

Table 1: Required consumables applicable for all systems

Applicable systems	Description	Part number	Size
All systems	PEEK tubing	4425163	0.13 x 3000 mm
All systems	Syringe	WC010615	1 mL
All systems	Syringe needle	1005819	1 mL
All systems	Syringe adapter	1008236	N/A
All systems	Syringe	WC010615	1 mL
All systems	LC-MS grade water	N/A	N/A
All systems	LC-MS grade methanol (stored in glass bottles)	N/A	N/A
All systems	LC/MS Standards Kit with High/Low PPGs	4406127	N/A
All systems	Lint-free wipes	018027	11 x 21 cm, 4.3 x 8.3 inches
All systems	Small poly swab	1017396	N/A
All systems	Instrument cleaning powder	5042862	N/A
All systems	Flexible Nalgene mixing bottle	5047495	N/A
All systems	Silver flexible zip bag	5047497	N/A
All systems	Large brush for front end cleaning	5021295	N/A
All systems	Clear flexible zip bag	5047496	N/A

Table 2: Required consumables applicable to selected MS systems

Applicable systems	Description	Part number	Size
Leybold Sogevac SV65 roughing pump, long life	Roughing pump oil	5043115	1L
Leybold SV28 and SV65 non-long life roughing pump	Roughing pump oil	1027317	1L
Leybold Sogevac MS40 roughing pump	Roughing pump oil	1034433	1L
Varian HS 602-2000 roughing pump	Roughing pump oil	010998	1L
6500, 6500+, Citrine and TripleTOF systems	Tapered brush for front end cleaning	5020895	N/A
All SCIEX Triple Quadrupole and QTRAP systems and TripleTOF systems	LC/MS Standards Kit with Low/High PPGs	4406127	N/A
ZenoTOF 7600 and X-Series QTOF systems	ESI Positive Calibration Solution	5049910	N/A
Leybold Sogevac SV65 roughing pump, long life	Roughing pump oil	5043115	1L
Leybold SV28 and SV65 non-long life roughing pump	Roughing pump oil	1027317	1L
Leybold Sogevac MS40 roughing pump	Roughing pump oil	1034433	1L
Varian HS 602-2000 roughing pump	Roughing pump oil	010998	1L

The SCIEX clinical diagnostic portfolio is For In Vitro Diagnostic Use. Rx Only. Product(s) not available in all countries. For information on availability, please contact your local sales representative or refer to www.sciex.com/diagnostics. All other products are For Research Use Only. Not for use in Diagnostic Procedures.

Trademarks and/or registered trademarks mentioned herein, including associated logos, are the property of AB Sciex Pte. Ltd. or their respective owners in the United States and/or certain other countries (see www.sciex.com/trademarks).

© 2021 DH Tech. Dev. Pte. Ltd. GEN-CST-02-7728-C