

eATMSPC-108

# Introduction to ICPMS-2030 Instrumentation

This course consists of online self-paced modules and activities.

**Product code:** 220-99217-08

**Duration:** 12 hours

**Items needed:** Ultrapure DI water, Trace-metal grade nitric acid, multielement standard (P/N: 220-95366-70), gold standard (P/N: 220-95357-55), and tuning solution (P/N: 220-95357-63).

## Course Description

This course will cover the knowledge and skills needed for success in running the ICPMS-2030 to quantify toxic heavy metals using LabSolutions ICPMS software. Participants will learn to operate the ICPMS instrument, create methods and analytical sequences, tune the instrument, acquire and analyze data, and run the Diagnosis Assistant and Development Assistant functions. Participants will also learn how to perform basic user maintenance of the ICPMS-2030.

## Learning Outcomes

Learning outcomes are the competencies the learner will acquire during this course. At the end of this course the learner will be able to:

- Prepare analytical and internal standards and microwave digestion samples
- Create instrument methods and analysis sequences of standards and samples
- Startup, tune, and shutdown the instrument properly
- Create calibration curves and quantify unknown samples
- Disassemble all user maintenance parts from the instrument
- Clean glassware, cones, and extractor appropriately
- Reassemble the instrument with all user maintenance parts

## Certification

To meet every learners' need, each course has two certification paths:

- 1) **Completion** – for those who require evidence the learning outcomes have been achieved.
- 2) **Attendance** – for those who don't want assessment.

To gain a certificate of completion, a passing grade of  $\geq 70\%$  of the total points available from assessments is required and, for in-person training,  $\geq 90\%$  attendance is required.

## Registration

To register for this and all other Shimadzu Scientific Instruments training courses see directions on the next page. If you have any questions about registration, please email [training@shimadzu.com](mailto:training@shimadzu.com).

For managers or administrators, or those otherwise tasked with signing up a learner other than themselves, be sure to create an account with the learner's information.



AA/ICP-MS

Balances

Biotech/MALDI

EDX-RF/XRD

Fluorescence

FTIR

GC

GC-MS/MS

HPLC/UHPLC

LC-MS/MS

Particle Size

Software

Testing Machines

Thermal

TOC/TN/TP

UV-VIS-NIR

## Create an Account

1. Visit <https://shimadzu.geniussis.com/PublicStudentSignUp.aspx>.
2. Fill in all fields on the page. Food Allergies is a required field to best serve our in-person learners. This information is not shared with anyone.
3. Click Register. You will be taken to your dashboard.

## Register for a Course

1. Click "Register for Course" in the left-navigation menu.
2. Click "Register" on the course or courses of your choice. This will place your course(s) in the cart.
3. Click the cart icon and then "Proceed to Checkout" in the popup or click "Proceed to Checkout" on the page.
4. Expand the "Payment Methods" form and select your payment method from the two options: Credit Card and P.O./Quote Number. If you select P.O./Quote Number, fill-in a P.O or Quote Number.
5. Click Submit.
6. You are now enrolled in the course(s). You may receive a follow-up phone call from a Customer Service Representative to finish collecting Credit Card payment or to verify your P.O./Quote Number.

The screenshot displays the Shimadzu Learner interface. On the left, a navigation menu includes 'Dashboard', 'Register for Course' (highlighted with a red box and circled '1'), 'Withdraw from Course', 'Print Transcript', and 'Edit Account'. The main content area features the Shimadzu logo and a search bar. Below the search bar are filters for 'All categories', 'All Dates', 'All Delivery Methods', and 'All locations'. A 'Find Course' button and a 'Proceed to Checkout' button (with a cart icon and circled '3') are visible. Three course cards are displayed: 'ATMSPC-104: Introduction to ICP-OES Instrumentation' (Face-to-face | Oct 20, 2020, 8 seats available, Duration: 3 days), 'eATMSPC-108: Introduction to ICPMS-2030 Instrumentation' (Online | Dec 14, 2020, 10 seats available, Duration: Self-Paced, circled '2'), and 'ATMSPC-100: Introduction to AA Instrumentation' (Face-to-face | Jan 5, 2021, 4 seats available, Duration: 4 days). Each card has an 'Info' button and a 'Register' button.

## About Shimadzu Scientific Instruments' Training

Shimadzu Scientific Instruments' training has helped thousands of scientists advance their careers through a wide variety of instrument and application training courses. Guided by learning science, these courses are designed by our team of subject-matter experts and learning professionals to provide a tailored blend of information and practice. For our in-person courses, instruction is provided by highly trained specialists who are experts in their respective fields.

