![SHIMADZU - Excellence in Science]

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

eGCMS-103

Introduction to GCMS Single Quad Instrumentation - GCMS-QP2020 NX

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

Product code: 220-99216-03
Duration: 12 hours

Items needed: The test column and tool kit that shipped with the instrument, Restek Grob test mix (Restek P/N: 35000), Kimwipes, and powder free latex or nitrile gloves.

Course Description

This course will cover the knowledge and skills needed to run the GCMS-QP2020 NX with GCMSsolutions software. Students will learn to operate the GCMS instrument, tune the instrument, create methods and batches, acquire data, and process data both qualitatively and quantitatively. Students will also learn how to perform basic user maintenance of the GCMS-QP2020 NX. There are assignments that require you to perform an instrument tune, create a method, run and analyze some samples, and perform user maintenance. You will be prompted to attach files or screenshots to complete these assignments. In addition, there are three short quizzes and a final exam.

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:

- Discuss the development of both GC and MS technology
- Describe how analytes are retained and ionized
- Identify the major parts of a GCMS instrument
- Create and run methods and batches
- Process data both qualitatively and quantitatively
- Generate customized data reports
- Perform routine instrument maintenance

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 ≥70% of the total points available from assessments is required and, for in-person training, ≥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**.

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.
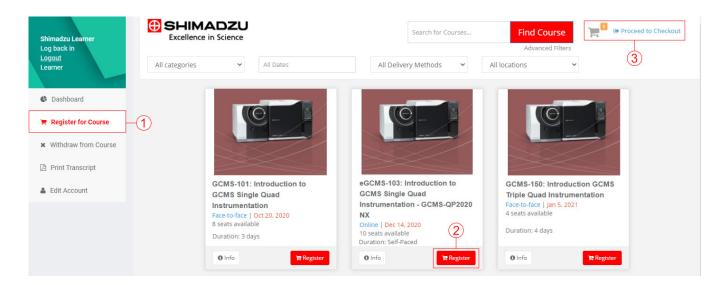
Create an Account

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.

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.

eGCMS-103-2020-Ver. 1