

800-910-4356 service@mass4.com to request a quote

Basic Operator Training for Helium Mass Spectrometer Leak Detectors

Learning Objectives: This intensive, one day workshop provides practical, hands-on knowledge along with basic vacuum fundamentals for operators of helium leak detectors: a solid understanding of basic vacuum system function, along with customized knowledge pertaining to your in-house leak detector(s) and processes to encourage each operator to become more proficient at leak check processes.

Recommended Attendees: Leak Detector Operators, Production Leads, Quality Personnel and Lab Technicians who use the leak detection equipment, or supervise leak detection processes.

Workshop Setup: One day workshop, approximately 6 hours of instruction-time. Small group size allows for individual instruction, a workbook for each attendee, and guided, hands-on experience. We recommend that training workshops be kept to 4-6 participants to maximize the learning opportunities for all. The workbook provides interactive practice and assessment as an integral part of the workshop. A Certificate of Completion is awarded to participants who successfully complete all the requirements of this workshop.

Workshop Fees: \$610 USD/participant up to 3, then 5% off, or \$579.50, for each additional participant. Standard travel charges from our San Jose, CA facility will be applied. *Please request a Quote.*

Operator Training Workshop Syllabus

Workshop Content Overview:

- I. Basic Vacuum Fundamentals vocabulary, properties of matter, scientific notation units of pressure & vacuum measurement, pressure & gas properties, characteristics of leaks
- II. Leak Detector System Components

 basic component function

 spectrometer tube (analyzer cell), standard leak,
 roughing pump & high vac pump function
 user interface, display, menus, gauges
 flow types, throughput & outgassing
 leak detection methods, leak rates
- III. Helium Leak Detector Function & Maintenance (customized to focus on your in-house equipment and processes) start-up & calibration, auto zero, shut down operation, menu navigation, error messages using the leak detector in your process maintenance, recommended solvents & materials solutions to simple issues, tech support

Each attendee receives a customized workbook for learning and future reference, along with individualized hands-on training.

Instructors: All instruction is provided by Mass 4 Service personnel.