

Biosafety Cabinet Workshop – Pre-Symposium Workshop

September 17, 2024

1:00 p.m. – 4:30 p.m.

This pre-symposium workshop will provide a comprehensive overview of biosafety cabinet (BSC) technology, appropriate techniques for safe usage, and a walkthrough of BSC certification. You will have the opportunity to learn directly from subject matter experts with backgrounds in biosafety, certification/testing, and BSC design. The course will utilize a mixture of lecture and hands-on sessions to deliver knowledge that will improve your understanding of BSCs with the end goal of enhancing the safety of your organization's biosafety cabinet users.

Learning Objectives

- Further your understanding of Biosafety Cabinets, including functionality, types, global standards, exhaust considerations, and specialty cabinets.
- Learn how to properly and safely conduct operations inside a Biosafety cabinet
- Understand the certification process and learn what to look for from your certifier and on your certification report.

Who is this course for?

Anyone looking to advance their knowledge and understanding of biosafety cabinetry, including BSC design and function, best practices for users, and certification.

Course Outline

Part One - Overview of BSC Technologies

Presenters: David Phillips (Con-Test) & David Wasescha (Labconco)

- Cabinet Function
 - Airflow
 - HEPA Filters
 - Major Parts (Blowers, etc.)
- Types
 - A1, A2, B1, B2, C1
 - Exhaust

- B2 Puffback
- Global Standards
 - NSF49, EN12469, AS2252, etc.
- Exhaust Energy Consumption
- Application-Specific Uses
 - Pharma, Pharmacy
 - Custom Cabinets
 - Automation Cabinets
 - Cell Sorters

Part Two - Proper BSC Use

Presenter: Tom Walus

- BSC setup and workflow considerations
- Best practices for working in a BSC
- Disinfection and spill response considerations

Part Three - Certification Methods

Presenter: David Phillips (Con-Test)

- Importance of Certification
- What is included?
- Frequency
- Certifier credentials
- Relevant standards
 - Custom Cabinets
- Primary vs. Secondary Inflow
- Reading a Certification Report