

MICROBIOLOGICAL SAFETY CABINET TESTING COURSE

AN OVERVIEW

Microbiological Safety Cabinets (MBCs) are extensively used in containment applications throughout industries such as pharmaceutical, healthcare, nuclear, and laboratory sciences.

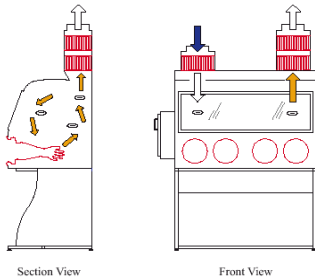
Legislative requirements together with the European Biotechnology Standards and British Standards for safety cabinets make it vital that all those responsible for efficient and safe working of containment systems are familiar with both the theory and practice of their operation, performance and testing.



Our Academy for Cleanroom Testing offers a two-day training course on Microbiological Safety Cabinet Testing. The extensive content is suitable for those with no experience wishing to learn about the technology, and also for those with some knowledge but wishing to deepen their understanding. It covers the following topics:

MODULE 1—SAFETY CABINET TECHNOLOGY

- HEPA filter
- Room Air
- Potentially contaminated air
- HEPA Filtered air
- Positive pressure
- Negative pressure



- ◆ Basic structures (Class I, II and III)
- ◆ Air flow regimes
- ◆ Filters and fans
- ◆ Handling and ergonomics
- ◆ Instrumentation and alarms

MODULE 2—SAFETY CABINET OPERATION

- ◆ Applications and process needs
- ◆ Installation and utilities
- ◆ Operation and conduct
- ◆ Clothing and PPE
- ◆ PPM and Maintenance



MODULE 3—SAFETY CABINET VALIDATION

- ◆ Standards and Guidelines for MBSCs
- ◆ Documentation and Validation
- ◆ Test equipment
- ◆ Testing
- ◆ How to specify an MBSC



PRODUCT

Training Course:

Microbiological Safety Cabinet Testing

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MODULE 4 DECONTAMINATION AND TESTING

- ◆ VHP and formaldehyde decontamination
- ◆ HEPA filter testing
- ◆ Airflow measurement
- ◆ Containment testing (OPF)
- ◆ Particle Counting

MODULE 5 GENERAL DISCUSSION

- ◆ Questions and Answers
- ◆ Your Applications and Issues
- ◆ Specific Topics (by request)

MODULE 7 OPTIONAL WRITTEN TEST (DAY 2)

- ◆ A selection of short questions will be provided, designed to gauge understanding of the course contents.

THE PRACTICAL APPLICATION (DAY 2)

A Class II MBSC and an isolator will be available for practical simulations and attendees will be encouraged to put their theoretical knowledge into practice under the guidance of the tutor. Limited to ten people.

REQUIREMENTS FOR THE COURSE

Delegates need no prior working with microbiological safety cabinets but an appreciation of controlled environments or facilities would be an advantage.

If it is run on a customer's site the following are required:

- ◆ An LCD projector and flip chart, a room for theory training
- ◆ A safety cabinet for testing, and test equipment (depending upon location)

WHO SHOULD ATTEND

The course will be of value both to those already involved with safety cabinet applications and testing to prove compliance.

It can be attended by those in engineering, facilities, maintenance, processing and operations QA/QC, commissioning and validation, health and safety, planning and management.

All attendees will receive a CD manual and a Certificate of Attendance. Successful examination results (optional) will receive an "Exam Pass" Certificate.

MODULE 6 (DAY 2) PRACTICAL AND "HANDS ON"

- ◆ Operation of MBSCs
- ◆ HEPA filter testing
- ◆ KI Discus testing
- ◆ Airflow measurement
- ◆ Particle counting



REFERENCE MATERIALS

- ◆ EN12469 - Microbiological Safety Cabinets
- ◆ NSF49 - USA standard for safety cabinets
- ◆ ISO14644 Part 1 and 3
- ◆ ACDP guidelines

