



Introduction to Biosafety Cabinets

44-MINUTE ONLINE COURSE | LEVEL 1

OVERVIEW

Introduction to Biosafety Cabinets provides an overview of biosafety cabinets (BSCs), including different types, safe operation and work practices, proper decontamination methods, and a review of the NSF/ANSI 49-2009 Standard.

Five Takeaways:

1. Define the function of a biosafety cabinet (BSC).
2. Describe the types of BSCs and explain why they are different.
3. Define what class II and III cabinets protect.
4. State how often a BSC should be certified.
5. Describe the primary method of decontamination and list the types of decontaminants approved by ANSI.

AGENDA

- **Air Filtration** defines the function of a biosafety cabinet (BSC), explains the features and functions of a HEPA filter, and lists the differences in retaining particle sizes for HEPA, ULPA, and SULPA filters.
- **Types of Biosafety Cabinets** describes the types of BSCs and explains why they are different.
- **Working in the Biosafety Cabinet** defines what class II and class III cabinets protect and explains why UV lights are not recommended for use in a BSC.
- **NSF/ANSI 49-2009** explains how often BSCs should be certified and describes the different functional tests for BSCs.
- **Biosafety Cabinet Decontamination** first describes the primary method of decontamination, lists the types of decontaminants approved by ANSI, and describes the two components that are critical during any method of decontamination. Lastly, this section explains what indicators are used to validate decontamination.