



Laboratory Fume Hood Safety and Maintenance

Course Introduction:

This course aims to provide participants with a comprehensive understanding of the principles, practices, and regulations surrounding the effective use and maintenance of fume hoods in laboratory environments. As safety regulations continue to evolve and laboratories face increasing scrutiny regarding occupational health, mastering fume hood safety is essential for ensuring a safe working environment.

Throughout the course, participants will explore key topics such as the design and function of fume hoods, proper usage protocols, maintenance requirements, and regulatory compliance. By examining case studies and industry best practices, attendees will learn how to effectively implement safety measures and maintenance procedures that enhance the performance of fume hoods. This course is designed to equip professionals with the knowledge and skills necessary to promote safety and compliance in laboratory settings while maximizing the effectiveness of fume hood systems.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamental design and function of laboratory fume hoods.
- Explore safety protocols for the proper use of fume hoods.
- Learn about maintenance requirements and procedures for fume hood systems.
- Analyze regulatory standards and guidelines related to fume hood safety.
- Gain insights into best practices for promoting a culture of safety in laboratories.

Who Should Attend?

This course is intended for Laboratory managers and supervisors, Safety officers and compliance professionals, Laboratory technicians and researchers and Environmental health and safety professionals.

Course Outline:

Day 1: Introduction to Laboratory Fume Hoods

- Overview of fume hood design: types and components
- Functionality of fume hoods in controlling hazardous exposure
- Importance of fume hood safety in laboratory environments

Day 2: Safety Protocols for Fume Hood Use

- Guidelines for proper fume hood usage and setup
- Identifying hazards and assessing risks associated with fume hood operation
- Best practices for working within a fume hood

Day 3: Maintenance Requirements for Fume Hoods

- Importance of regular maintenance and inspection of fume hoods
- Common maintenance procedures and schedules
- Troubleshooting common issues in fume hood operation

Day 4: Regulatory Standards and Compliance

- Overview of relevant regulations and standards (OSHA, ANSI, etc.)
- Understanding compliance requirements for fume hood safety
- The role of laboratory personnel in maintaining compliance

Day 5: Promoting a Culture of Safety

- Strategies for fostering a safety-conscious laboratory environment
- Training and education programs for laboratory personnel
- Case studies on successful fume hood safety and maintenance initiatives

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session