Cleanroom Microbiology for Non-Microbiologists

WHO SHOULD ATTEND

This online training has been developed for Personnel that work in, develop procedures for, monitor, provide technical support for, and design cleanrooms. Professionals who will benefit greatly from this training include personnel in:

- QA, QC
- Production
- Engineering
- Maintenance
- Architects
- Development

LEARNING OBJECTIVES

Upon completion of this training, you will be able to:

- Discuss and develop strategies for controlling contamination
- List the different classifications and requirements for cleanrooms and give examples of the types of operations in each
- Discuss current disinfection methods
- Discuss personnel behavior and gowning
- Discuss monitoring current practices
- Explain the difference, pro’s and con’s of RABs and Isolators
- List the most common problems associated with cleanrooms
- Demonstrate where to quickly find information about regulations, guidance and current practice in clean rooms

COURSE DESCRIPTION

This 90 minute accredited training will familiarize personnel without microbiology backgrounds with an understanding of why the tight control all activities associated with cleanrooms are necessary to assure product sterility.

Review of Learning Objectives

Module 1:
- Microbiological Behavior Characteristics
- Sources of Contamination
- Mitigation of Contamination through Clean Air Movement
- Hepa Filters

Module 2:
- Personnel Movement and Gowning
- Disinfectant Practices

Module 3:
- Monitoring the Clean Rooms and Personnel
- Validation
- Common Problems

Question and Answer Session

TUITION AND REGISTRATION

TUITION* – Single Rate: U.S.$295.00 per person  Group Rate: U.S.$245.00 per person**


For Questions and Information call Customer Service at 732-613-4500.

Please Note: Multiple participants are not authorized to share access provided to a single registrant; a single dedicated seat license must be purchased for each individual. CfPA reserves the right to cancel access or collect the group rate payment if this requirement has been violated. Only registered participants will receive accreditation.

System Requirements: PC-based attendees: Windows(R) 7, Vista, XP or 2003 Server/Macintosh(R)-based attendees: Mac OS(R) X 10.4.11 (Tiger(R)) or newer

For more information see reverse side
**TERMS AND CONDITIONS**

*Payment:* Tuition payable in US funds net of all charges. Payment is due at time of registration in the form of a credit card. Please contact CfPA’s Customer Service for other payment options.

**Group Rate:** The Group Rate is for two or more enrollments, up to five registering from the same company at the same time. For groups of six or more, please contact Customer Service for group pricing.

Cancellations/No Show: *“Live”* - Registrants may cancel up to two working days prior to the course start date and will receive a letter of credit to be used towards a future course up to one year from date of issuance. No credit will be issued for no-shows and/or cancellations less than two working days prior to the course. *“On-Demand”* - No refund or credit will be issued for no-shows and/or cancellations of on-demand training courses. CfPA is not responsible for any outside related costs incurred by registrant’s cancellation.

---

**WHO WE ARE**

The Center for Professional Advancement (CfPA) is the largest accredited technical training organization in the world with a curriculum of approximately three hundred and fifty short courses in 18 industries including Pharmaceutical, Biotechnology, Medical Device, Chemical, Cosmetics, Food and more.

Since our founding in 1967, we have successfully trained nearly a half million people worldwide in topics ranging from basic and introductory concepts to new advances and cutting-edge technology, and current U.S. and European regulations. CfPA courses are offered in a variety of formats – Public offering, Client Site and Online – to fit you or your company’s training needs.

For more information visit our website at [www.cfpa.com](http://www.cfpa.com)

---

**COURSES OF INTEREST**

- Four Effective Practices Employed by Smart Pharmaceutical Companies–An Online Course
  course ID# 2608
- Environmental Monitoring for Non-Sterile Drugs–An Online Course
  course ID# 2397
- Introduction To Pharmaceutical cGMP –An Online Course
  course ID# 2244
- Microbiological Control and Validation
  course ID# 902
- Microbiological Rapid Detection Methods–An Online Course
  course ID# 2610
- Microbiology for the Non-Microbiologist–An Online Course
  course ID# 2611
- Pharmaceutical cGMP-Quality Systems–An Online Course
  course ID# 2245

---

**ABOUT ON-DEMAND:**

Our pre-recorded on-line training courses are available for viewing at your convenience at your computer. Register for a CfPA on-demand course, your registration will be processed within two (2) business days, after payment and registration are complete you will receive an email from onlinetraining@cfpa.com with your password to access the on-demand course. You will have two (2) business days to view the course. You MUST complete all polls and the course evaluation to receive your accreditation certificate for this course.

---

**ACCREDITATIONS**

The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500 McLean, VA 22102. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. The Center for Professional Advancement is therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEUs will be awarded only upon successful completion of the course, i.e., attendance at essentially all the formal training and a minimum score of 70% on the assessment. The Center for Professional Advancement is therefore authorized to offer IACET CEUs at a rate of .1 CEU per contact hour (rounded to the nearest tenth) for its programs that qualify under the ANSI/IACET Standards.

---

**COURSE DIRECTOR**

William Marshall; President, William G. Marshall and Associates

William G. Marshall is President of William G. Marshall and Associates. He has nearly forty years experience in the Pharmaceutical and Medical Device Manufacturing Environment. Mr. Marshall has held Director level and Chief Operating Officer positions with large multinational pharmaceutical corporations as well as start-up ventures. He has been the Director of a major reference laboratory, and has been active in clean room design and validation. In the last five years, he has acted as a third party in several consent decrees.

Mr. Marshall is currently a consultant to the worldwide drug and device industry as well as to the FDA. He lectures worldwide in GMP related issues including Clean Room Technology and Sterilization.

---

**CONTACT**

The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500 McLean, VA 22102. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. The Center for Professional Advancement is therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEUs will be awarded only upon successful completion of the course, i.e., attendance at essentially all the formal training and a minimum score of 70% on the assessment. The Center for Professional Advancement is therefore authorized to offer IACET CEUs at a rate of .1 CEU per contact hour (rounded to the nearest tenth) for its programs that qualify under the ANSI/IACET Standards.