



CfPA

The Center for Professional Advancement
Accredited Technical Training Worldwide
PO Box 7077, East Brunswick NJ 08816
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ON-DEMAND Online Training Course

A Two-Part Series

Control of Microbial Contamination in Manufacture of Sterile and Non-Sterile Products

Location: Your Computer Offering # 0811-704 Priority Code: 520

Maximize learning and minimize expense: Register for both parts and save \$100 OR take either as a stand-alone course.

WHO SHOULD ATTEND

This course is intended for persons who are directly involved with the manufacture of sterile drugs and medical devices, as well as other products that are required to be free of certain objectionable organisms. It is recommended for:

- Production Managers • QC/QA Managers • Environmental Monitoring Personnel • QC/QA Lab Personnel
- Process Design/Engineering Personnel • Maintenance Managers

LEARNING OBJECTIVES

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

- Define the primary sources of microbial contamination
- Evaluate processes, equipment design/operation/maintenance and personnel training in terms of their roles in controlling microbial contamination
- Compare the relative importance of disinfection, sterilization and preservation in controlling microbial contamination

COURSE DESCRIPTION

This 90-minute online course provides an overview of the sources of microbial contamination and how to control such contamination. While many of the concepts presented relate to the manufacture of sterile drugs and devices, much of the material is also applicable to non-sterile products. Products contaminated with microorganisms can cause infection in the end user and result in significant financial loss to the manufacturer due to rejected product, recalls and litigation. In this course, you will gain an understanding of what microbial contamination is its sources, and what steps can be taken to reduce the risk of such contamination. Disinfection, sterilization and preservation will be discussed in terms of relevance and limitations. Other elements will also be addressed, including the importance of properly designed processes, equipment and training of personnel. The advantage of rapid methods over traditional microbiological testing will also be discussed.

Module 1:

- Definition of Microbial Contamination
- Sources of microbial contamination in manufacturing processes
- Role of microbial biofilms

Module 2:

- Definition of disinfection, sterilization, and preservation
- Use of heat, ionizing radiation, ethylene oxide and filtration as sterilization methods
- Disinfection versus sterilization
- Resistant organisms

Module 3:

- Laboratory role in microbial contamination control
- Facility monitoring and training of personnel
- Testing for microbial contamination: Rapid testing versus conventional methods
- Questions & Answers

COURSE DIRECTOR

Daniel J. Spangler, M.S., Consultant, Microbial Contamination Solutions, LLC.

ACCREDITATIONS



The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 8405 Greensboro Drive, Suite 800, 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. As a result of their Authorized Provider membership status, The Center for Professional Advancement is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards.

REGISTRATION

TUITION* – **Single Rate: U.S. \$295.00 per person** **Group Rate: U.S. \$245.00 per person****
(Attend both parts and SAVE \$100! Tuition for entire series – **Single Rate: U.S. \$490.00** **Group Rate: U.S. \$390.00)**
Register at www.cfpa.com. Enter **Course Offering #0811-704** into **Quick Jump**. To register use **Priority Code: 520**.

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.

OTHER IN THE SERIES: **Investigation of Microbial Contamination** ID#2216; available On Demand

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 olinetraining@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.

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.