



Western  
University  
OF HEALTH SCIENCES

College of Pharmacy

# BASIC PRINCIPLES OF STERILE COMPOUNDING

**MAY 11, 2024**

## Location

Western University of Health Sciences  
Health Professions Center  
550 E. Second Street, Pomona, CA, 91766

## Time

Saturday 8:30 a.m. - 3:00 p.m. (1/2 hour lunch)

**6 CONTACT HOURS**

**Cost: \$399**

This course includes both lectures and hands-on training.

Cancellations made 10 days in advance of class date are fully refundable less a \$25 administrative fee. If canceled in less than 10 days, there is no refund, however, you may reschedule for a future class.

No deadline to register.

**REGISTER NOW**

[pharmacyce.westernu.edu](http://pharmacyce.westernu.edu)

### **CE Accreditation**

Target Audience: Pharmacists or Pharmacy Technicians

Activity Type: Application Based



Western University of Health Sciences College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

UAN # 0059-0000-22-007-L07-P

0059-0000-22-007-L07-T

**0.6 CEU's or 6 Contact Hours**

To earn CE credit, attendees will be required to actively participate in the entire session, and successfully pass a post test and achieve 70% or higher score and evaluate the program. Partial credit will not be given.

### **CE Coordinator Contact Information**

Renee Cook, Director of Professional Development and Community Outreach

WesternU College of Pharmacy

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[www.westernu.edu/pharmacy/outreach-events/continuing-education/](http://www.westernu.edu/pharmacy/outreach-events/continuing-education/)

# CLASS OVERVIEW

For pharmacists and pharmacy technicians engaged in preparing compounded sterile preparations (CSP). This course puts forward up-to-date knowledge, key skills and hands-on training on aseptic techniques, all in a one day workshop. The contents focus on the standards and best practices before a CSP reaches a patient. The material is thorough and balanced to ensure an easy-flow of information. At the end of the course, you are expected to be well-versed and equipped with skills to further your career or reinforce your knowledge base.



# INSTRUCTOR



**Abdelaziz Alsamarah, PharmD, MSPS**  
**IV pharmacy supervisor**  
**AmeriPharma Specialty Care**

Board Certified in Sterile Compounding BCSCP

Board Certified in Nutrition Support BCNSP



# LEARNING OBJECTIVES

1. Describe the history behind the development of sterile compounding standards and regulations in the United States
2. Explain the role of the compounder in assuring the safety of compounded sterile preparations.
3. Describe sterile compounding facility requirements and engineering controls
4. Apply USP risk categories to assigning a proper beyond-use date for compounded sterile preparations.
5. Demonstrate garbing sequence for non-hazardous and hazardous compounding.
6. Explain how environmental conditions are measured and maintained
7. Illustrate how to properly perform moving products, mixing, hand hygiene, fingertips sampling and growth media.
8. Compare and contrast the vascular access options available for administering parenteral nutrition.
9. Design a parenteral nutrition formulation based on estimated requirements.

# CONTENT COVERED:

- USP 797 updates 2023
- Introduction into sterile compounding
- Common pharmaceutical calculations
- Common compounded preparations
- Compounding facilities and engineering controls
- Compounding material
- Beyond Use Date (BUD)
- Environmental monitoring
- Quality Assurance QA, and Quality Control QC
- Infection control
- Hand hygiene and garbing
- Proper clean room behavior and material movement
- Aseptic manipulations (Media fill & Fingertips sampling)
- Principles of HEPA-filtered unidirectional airflow
- Measuring and mixing
- Use, calibration, cleaning, and maintenance of all related compounding equipment
- Handling Hazardous Drugs
- Documentation of compounding process
- Comparison of common intravenous catheters
- Enteral (EN) vs. Parenteral (PN) feeding
- Types of enteral products
- Nutritional requirements in adults
- Considerations for product selection
- Parenteral nutrition 2-in-1 vs. 3-in-1
- Medication co-administration with EN/PN
- Lab work and formula adjustments
- Common feeding errors
- Special populations on TPN
- PNLAD and cTPN