Sterile Compounding Boot Camp® Virtual Training Series
Best Practices for Handling Hazardous Drugs Live Virtual Course (10 CE hours)
Included and required eLearning precourse curriculum found after the Live Virtual agenda listing

Day 1: 10:00 AM to 3:00 PM Eastern

Time	Name of Live Activity	Learning Objectives (for CE Sessions)
10:00–10:30 AM	Introduction, overview, and explanation about course, introductory activity for the group	Each Live vCourse participant will introduce themselves: name, organization, state, specific areas of interest relative to the course topic.
10:30–11:30 AM	Overview of USP 800 and HD Handling	• Cite examples of HD-exposure effects on persons who handle HDs. • Describe the location of resources regarding HD practice. • Recall common HD guidelines, standards, and regulatory and best practice events. • List the major elements of USP 800. • Differentiate between the scope of USP Chapters 795, 797, and 800. • Describe current issues related to USP Compounding Chapter enforceability and compendial applicability.
11:30–11:45 AM	*Break*	
11:45 AM–1:00 PM	Containment Secondary Engineering Controls (C-SECs): Cleanroom Suites and C-SCAs	• Describe the types of compliant C-SECs for nonsterile and sterile HD compounding. • Discuss considerations relevant to the use of pass-throughs in HD applications. • Analyze the allowable but suboptimal design of C-SECs and strategies used to compensate for such. • Describe the tests required for certification of C-SECs.
1:00–1:45 PM	*Lunch*	
1:45–2:45 PM	Containment Primary Engineering Controls (C-PECs)	• Describe the types of compliant C-PECs for nonsterile and sterile HD compounding. • Describe the tests required for certification of C-PECs.
2:45–3:00 PM	Summary of day and preview of next day	

CE for the day: 3.25 hours

Day 2: 10:00 AM to 3:30 PM Eastern

Time	Name of Live Activity	Learning Objectives (for CE Sessions)
10:00–11:00 AM	Donning, Doffing, and Types of Personal Protective Equipment (PPE)	• List the best sequence in which to perform donning and doffing of HD PPE resulting in microbial protection of CSPs, HD containment and protection of the worker. • Differentiate between USP 800 requirements and CriticalPoint best practice recommendations. • Evaluate donning and doffing practices at your facility. • Modify practices based on best practice garbing to reduce HD contamination.
11:00–11:15 AM	*Break*	
11:15 AM–Noon	Interactive Doffing Exercise	• Watch a video of best practice doffing, and identify opportunities for improvement at your facility. • Identify a best practice doffing sequence.
Noon–12:45 PM	*Lunch*	
12:45–2:00 PM	Work Practice Strategies for Receiving, Storing, Compounding, and Transporting HDs and HD CSPs	• List the practice elements essential to reducing the generation of HD contamination and risk of exposure throughout the HD-use lifespan. • Differentiate between USP 800 requirements and CriticalPoint best practice recommendations. • Implement effective handling during compounding to ensure the final HD CSP container and packaging are free from HD contamination. • Evaluate safe transport procedures for HD inventory and final CSPs.
2:00–2:15 PM	*Break*	
2:15–3:15 PM	Decontamination, Cleaning and Disinfection, and Residue Removal in HD Compounding Environments	• Define and differentiate the terms deactivation, decontamination, cleaning, disinfection, and sanitization. • Identify agents that may be used for decontamination of hazardous drugs. • Properly sequence decontamination, cleaning and disinfection, and application of sterile IPA in HD environments. • Evaluate and modify your facility's current practices for decontamination, cleaning, and disinfection to ensure removal/containment of HD residue without compromising the state of microbial control.
3:15–3:30 pm	Questions and answers; summary of day	

CE for the day: 4 hours

Day 3: 10:00 AM to 2:30 PM Eastern

Time	Name of Live Activity	Learning Objectives (for CE Sessions)
10:00–10:30 AM	Interactive exercise: Negative-Pressure Compounding Versus the Use of a CSTD	• Watch a video illustrating the difference between simple syringe manipulations using a simulated drug and compounding using positive, negative, and CSTD strategies. • Evaluate the time necessary to correctly perform negative-pressure compounding against the performance of potential supplemental engineering controls (ECs) at your location. • Modify negative-pressure compounding practices at your location if required.
10:30–10:45 AM	*Break*	
10:45-11:45 AM	Elements and Practical Examples of Performing an Assessment of Risk (AoR)	• List which drugs may be exempted from full containment and work practices of USP 800. • Define the components required in an AoR. • Evaluate different approaches to the creation and maintenance of an AoR. • Discuss specific examples of AoR strategies from actual practice.
11:45–12:30 PM	*Lunch*	
12:30-1:00 PM	Response to HD Exposure and Spills	• List the required elements of an exposure control and response plan, and evaluate your organization's plan for compliance. • Discuss the requirements for HD spill cleanup. • Describe the logistical and practical hurdles that can be encountered in implementing an effective spill management program. • List potential strategies for effective spill management.
1:00–1:45 PM	Interactive Exercise: Design and Build Evaluation of Facilities Intended for HD Compounding	• Evaluate sample layouts, and identify areas of concern relative to USP 797 and 800 compliance, efficiency of workflow, and best practice considerations. • Revise sample layouts to ensure improved compliance, efficiency, and achievement of best practices.
1:45-2:30 PM	Summary of class; last questions and answers	

CE for the day: 2.75 hours

eCourse to be Completed Before Attending Live Virtual Training
Requirements and Best Practices for Hazardous Drug Compounding *(5 lessons/5 hours CE)*

Introduction and Overview (1 hour)
- List the adverse health risks of occupational exposure to hazardous drugs (HDs).
- Describe the occupational sources of HD contamination that may result in exposure of workers.
- Compare the key recommendations from OSHA, NIOSH, ASHP, and USP for minimizing the risk of occupational exposure to HDs.
- Develop a list of NIOSH-listed hazardous drugs handled at your organization.
- Discuss specific administrative, environmental, and work practice controls, and personal protective equipment (PPE) that result in improved safety.

Primary and Secondary Engineering Controls (1 hour)
- Describe the types of compliant HD primary and secondary engineering controls for both sterile and nonsterile compounding.
- Analyze the allowable and allowable-but-suboptimal designs of HD SECs.
- Discuss considerations relevant to the use of pass-throughs in HD applications.

Use of Personal Protective Equipment (1 hour)
- Discuss the rationale for the types of personal protective equipment (PPE) required and recommended for hazardous drug handling.
- Select the correct type of PPE for HD compounding and other handling and spill scenarios.
- List the proper sequence and method of donning and doffing HD PPE.

Work Practice Strategies: Receiving, Storage, Compounding, Labeling, Packaging, and Transport (1 hour)
- Differentiate between the traditional and CriticalPoint-proposed receiving paradigm relative to actions needed to ensure containment of hazardous drug residues.
- List the requirements for storing active pharmaceutical ingredients (APIs) and antineoplastic drugs that require manipulation.
- Describe the necessary elements and strategies for developing an assessment of risk for eligible drugs.
- Outline required and best work practices for storage, compounding, labeling, packaging, and transport of HD components and final HD CSPs.

Work Practice Strategies: Decontamination of HD Spaces, Management of Spills and Staff Training (1 hour)
- Properly sequence and perform decontamination in addition to other required elements of cleaning and disinfection in HD handling environments.
- Design an effective spill-management program that meets the requirements of USP 800 as well as addresses the logistical and practical challenges often encountered in managing spills.
- List considerations for trace and bulk hazardous drug disposal.
- Outline requirements for initial and ongoing training, competency assessment, and documentation for a hazardous drug compounding practice.