**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 2:45 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.<br>• Describe the location of resources regarding HD practice.<br>• Recall common HD guidelines, standards, and regulatory and best practice events.<br>• List the major elements of USP 800.<br>• Differentiate between the scope of USP Chapters 795, 797, and 800.<br>• 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.<br>• Discuss considerations relevant to the use of pass-throughs in HD applications.<br>• Analyze the allowable but suboptimal design of C-SECs and strategies used to compensate for such.<br>• Describe the tests required for certification of C-SECs. |
| 1:00–1:30 PM | *Lunch* | |
| 1:30–2:30 PM | Containment Primary Engineering Controls (C-PECs) | • Describe the types of compliant C-PECs for nonsterile and sterile HD compounding.<br>• Describe the tests required for certification of C-PECs. |
| 2:30–2:45 PM | Summary of day, answer questions, 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) |
|---|---|---|
| 10:00–10:15 AM | Questions from the previous day | |
| 10:15–11:15 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.<br>• Differentiate between USP 800 requirements and CriticalPoint best practice recommendations.<br>• Evaluate proper donning and doffing practices.<br>• Identify garbing-technique best practices to reduce HD contamination. |
| 11:15–11:30 AM | *Break* | |
| 11:30 AM–12:15 PM | Interactive Doffing Exercise | • Compare doffing practices at your facility to presented best practices.<br>• Identify a best practice doffing sequence. |
| 12:15–12:45 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.<br>• Differentiate between USP 800 requirements and CriticalPoint best practice recommendations.<br>• Describe effective handling during compounding to ensure the final HD CSP container and packaging are free from HD contamination.<br>• 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.<br>• Identify agents that may be used for decontamination of hazardous drugs.<br>• Properly sequence decontamination, cleaning and disinfection, and application of sterile IPA in HD environments.<br>• Identify opportunities to modify decontamination, cleaning, and disinfection practices to ensure removal/containment of HD residue without compromising the state of microbial control. |
| 3:15–3:30 PM | Summary of day, answer questions, and preview of next 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) |
|---|---|---|
| 10:00–10:15 AM | Questions from the previous day | |
| 10:15–10:45 AM | Interactive Exercise: Negative-Pressure Compounding Versus the Use of a CSTD | • Differentiate simple syringe manipulations based on positive, negative, and CSTD strategies.<br>• Evaluate the time necessary to correctly perform negative-pressure compounding against the performance of potential supplemental engineering controls (ECs).<br>• Identify negative-pressure compounding-practice changes that may be needed at your location. |
| 10:45–11:00 AM | *Break* | |
| 11:00 AM–Noon | 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.<br>• Define the components required in an AoR.<br>• Evaluate different approaches to the creation and maintenance of an AoR.<br>• Discuss specific examples of AoR strategies from actual practice. |
| Noon–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.<br>• Discuss the requirements for HD spill cleanup.<br>• Describe the logistical and practical hurdles that can be encountered in implementing an effective spill management program.<br>• 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.<br>• Revise sample layouts to ensure improved compliance, efficiency, and achievement of best practices. |
| 1:45–2:30 PM | Summary of class and answer questions | |

**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.