

## Course Outcomes Guide (COG)

**Course Title:** PHR-112 Sterile Medication Preparation

**Date:** Fall, 2017

**Course Team:** Jennifer Suminski, CPhT, RDH, MS

### Expected Learning Outcomes

1. Demonstrate an understanding of terminology associated with the sterile medication preparation;
2. Interpret prescription/medication orders and fill/prepare for dispensing medications correctly;
3. Demonstrate proficiency in pharmacy calculations;
4. Prepare sterile compounded preparations using aseptic technique and good compounding practices including syringes, minibags, TPN, LVP and SVPs, elastomeric, and proprietary IV systems;
5. Describe how USP <797> relates to sterile compounding and best compounding practices;
6. Demonstrate an understanding of hazardous drug handling, preparation, dispensing and destruction;
7. Exhibit an understanding of medication delivery systems, including ambulatory and pole mounted pumps;
8. Describe the process of selecting the appropriate medications for sterile compounding;
9. Demonstrate the correct hand washing and gowning procedures;
10. Describe the procedures and operations relating to the compounding, packaging, and labeling of drugs, including hazardous medications;
11. Manipulate automated compounding devices (ACDs) such as TPN compounders and repeater pumps, in compounding;
12. Exhibit an understanding of the correct manipulation of electronic balances, hot plate/magnetic stirrers, and standard laboratory equipment; and
13. Explain and demonstrate the procedures and techniques relating to aseptic technique;
14. Demonstrate sanitation and maintenance techniques to ensure cleanliness in the pharmacy compounding areas.

**Assessment:** Assessments include homework assignments (20% of overall grade), lab practical (30% of overall grade), quizzes and lecture examinations (20% of overall grade) and one cumulative final examination (30% of overall grade). Students are required to achieve an overall grade of 75% or better.

**Validation:** This is didactic course, in which the overall grade is determined by the completion of course assessments with a goal of 100% of students achieving an average of 75% or higher. By completing this course, students will achieve the objectives as mandated by the accreditation standards for the American Society of Health Systems Pharmacist (ASHP).

**Results:** These results are based, on one student who was enrolled in the course during the fall, 2017 semester.

<b>Assessments</b>	<b>Course Average</b>
Quizzes & Tests	97.94%
Assignments	98.73%
Lab Practical	100%
Cumulative Examination	96.52%
Overall Course Grade	97.93%

**Follow-up:** Adjustments will continually be made to link weekly theory concepts with the practical aspects of pharmacy settings and the role of a pharmacy technician.

**Budget Justification:** No changes are needed at this point.