

Aseptic Compounding Technique

Learning & Mastering the Ritual

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Preface

Aseptic Compounding Technique: Learning and Mastering the Ritual provides both those who are experienced and novices with the most current standards in safety and procedures. In aseptic compounding while you must observe requirements for the type of primary engineering controls, the technique remains static regardless of the end product. The preparation of each compound is like a ritual and must be performed exactly and flawlessly each time.

The skills and techniques discussed in this how-to, hands-on text are derived from practice and teaching in the field and classroom, and guidance from U.S. Pharmacopeia (USP) Chapters <797> and <800>. Every effort was made so that the learners and every patient they help treat can be confident in their skills and knowledge. The chapters are in outline, step-by-step formats with photographs and drawings accompanying every critical step.

Chapter 1 begins with the hand skills and techniques necessary to start the journey to nonhazardous compounding in horizontal airflow so that each learner can practice and perfect his or her craft for the duration of instruction. Each subsequent chapter is taught in succession to add on to the knowledge and skills practiced in the first chapter. Chapter 9, which is the culmination of the skills learned in the preceding chapters, will introduce skills and techniques vital to hazardous compounding in vertical airflow. This chapter is as important to vertical airflow technique as Chapter 1 is to horizontal airflow technique.

The text is created with chapters broken into subsections that are pivotal to that individual chapter. Examples of these subsections include:

- **Goals**—Main skills and techniques that will be discussed in the chapter.
- **Background/Pertinent Information**—Important information that is not skill-based but will affect how techniques are performed.
- **Things to Consider Before You Start**—Knowledge that is skill-based and required beforehand to perform techniques discussed in the subsection Supplies and the Process.
- **Supplies and the Process**—Step-by-step instructions on how to properly perform a skill within aseptic technique and the supplies needed.
- **Calculations for the Job**—Calculations that affect the outcome of how a technique must be performed. It is assumed that learners have previous experience with calculations commonly used in aseptic compounding.
- **What Ifs?**—Situations and scenarios that may not arise during every compound performed but are important to consider. It is important to know how to deal with these possibilities, so possible remedies are discussed.
- **Finishing the Process**—Steps for how to finish the aseptic performance are outlined here.

Note: All techniques, procedures, and specification standards in this text reflect that of current USP Chapter <797> standards and that of proposed changes to USP Chapter <797>. Proposed changes in this text are demarcated with an asterisk (*).

- Zachary Thomas Jordan

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