

# **Sterile Compounding Module 1 Practice Test (Sample)**

## **Study Guide**



**Everything you need from our exam experts!**

**This is a sample study guide. To access the full version with hundreds of questions,**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## 1. Start with a Diagnostic Review

**Skim through the questions to get a sense of what you know and what you need to focus on. Don't worry about getting everything right, your goal is to identify knowledge gaps early.**

## 2. Study in Short, Focused Sessions

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations, and take breaks to retain information better.**

## 3. Learn from the Explanations

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## 4. Track Your Progress

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## 5. Simulate the Real Exam

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## 6. Repeat and Review

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning.**

## 7. Use Other Tools

**Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly — adapt the tips above to fit your pace and learning style. You've got this!**

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## **Questions**

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- 1. What is one factor that could lead to the need for recertification of a facility?**
  - A. Change in drug formulation**
  - B. Significant movement of the PEC**
  - C. Increase in staff numbers**
  - D. Change in operating procedures**
  
- 2. CSPs prepared in an ISO class 5 environment with a classified cleanroom suite fall under which category?**
  - A. Category 1**
  - B. Category 2**
  - C. Category 3**
  - D. Category 4**
  
- 3. If a CSP has a Beyond Use Date (BUD) of less than or equal to 12 hours at controlled room temperature, which category does it belong to?**
  - A. Category 1**
  - B. Category 2**
  - C. Category 3**
  - D. Category 4**
  
- 4. What are the goals for facilities and engineering controls to minimize microbial contamination?**
  - A. Preventing personnel movements**
  - B. Prevent airborne contaminants with air quality standards**
  - C. Limiting accessibility to the workspace**
  - D. Implementing fewer cleaning protocols**
  
- 5. What is a characteristic of a negative pressure room in a Sterile Compounding Environment?**
  - A. A. Positive air pressure drafting**
  - B. B. Lower air pressure than adjacent areas**
  - C. C. Enhanced ventilation**
  - D. D. Increased air quality**

**6. Which of the following best describes the air quality requirement in a buffer area for secure compounding?**

- A. A. Must maintain positive air pressure**
- B. B. Must include a minimum of 30 air changes per hour**
- C. C. Should have no restrictions on air changes**
- D. D. Needs to be equal to ante area standards**

**7. What type of cleaning agent is used to remove dirt, debris, microbes, and residuals from the PEC?**

- A. Disinfectant**
- B. Surfactant**
- C. Solvent**
- D. Abrasive cleaner**

**8. Are all cleaning supplies inside the hood required to be sterile according to USP 797?**

- A. Yes, they must be sterile**
- B. No, they do not need to be sterile**
- C. Only certain supplies need to be sterile**
- D. It depends on the type of procedure**

**9. What is the BUD for Category 1 compounding?**

- A. 4 days room temperature**
- B. 12 hours room temperature**
- C. 60 days room temperature**
- D. 24 hours refrigerated**

**10. What is a key requirement for environments where sterile preparations are compounded?**

- A. Controlled lighting**
- B. ISO class 5 or better**
- C. Frequent cleaning**
- D. Low traffic**

## **Answers**

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1. B
2. B
3. A
4. B
5. B
6. B
7. B
8. A
9. B
10. B

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## **Explanations**

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**1. What is one factor that could lead to the need for recertification of a facility?**

- A. Change in drug formulation**
- B. Significant movement of the PEC**
- C. Increase in staff numbers**
- D. Change in operating procedures**

Recertification of a facility can be necessitated by significant movement of the Primary Engineering Control (PEC). The PEC, which includes equipment like laminar flow hoods or compounding isolators, plays a crucial role in maintaining the sterile environment necessary for compounding. When a PEC is moved, it may affect the airflow patterns and the overall sterility of the compounding area, potentially leading to contamination risks. After any substantial relocation, the facility must be re-evaluated to ensure that air quality and environmental controls are still compliant with regulatory standards. This involves comprehensive testing to confirm that the PEC is still functioning correctly in its new position, ensuring that it can adequately protect sterile preparations. While factors like changes in drug formulation, increases in staff numbers, or alterations in operating procedures can influence practice quality or staff training needs, they do not inherently compromise the sterile environment as directly as the movement of the PEC does, hence they are not primary triggers for immediate recertification.

**2. CSPs prepared in an ISO class 5 environment with a classified cleanroom suite fall under which category?**

- A. Category 1**
- B. Category 2**
- C. Category 3**
- D. Category 4**

CSPs, or Compounded Sterile Preparations, prepared in an ISO class 5 environment with a classified cleanroom suite are classified as Category 2. This classification is essential for understanding the environmental controls and requirements for compounding sterile products. The Category 2 designation is specifically designed for CSPs that are prepared under more controlled conditions, focusing on ensuring that these preparations will maintain sterility and are defined by specific storage times and methods when dealing with non-hazardous and some hazardous drugs. An ISO class 5 environment meets the required standards for limiting airborne particles specifically aimed at creating a sterile environment, which is critical for the preparation of these types of compounds. In contrast, Category 1 and Category 3 designs are attributed to different levels of risk and specific conditions that don't align with the enhanced control measures associated with sterile compounding in an ISO class 5 environment. Category 4 is focused on compounding involving hazardous drugs within stricter guidelines and does not apply to non-hazardous preparations in a cleanroom setting. Thus, the correct classification for CSPs prepared in an ISO class 5 environment is indeed Category 2.

**3. If a CSP has a Beyond Use Date (BUD) of less than or equal to 12 hours at controlled room temperature, which category does it belong to?**

- A. Category 1**
- B. Category 2**
- C. Category 3**
- D. Category 4**

The correct classification for a compounded sterile preparation (CSP) that has a Beyond Use Date (BUD) of less than or equal to 12 hours at controlled room temperature is indeed Category 1. This category typically includes CSPs that are prepared under conditions that provide a shorter time frame for their use due to concerns about sterility and stability. In this category, the emphasis is placed on the immediate use of the CSP, which is why the BUD is limited to 12 hours or less. This is particularly relevant in emergency situations or when the preparation can be used soon after compounding, thus minimizing the time the preparation spends outside of controlled conditions where sterility is maintained. The other categories involve different time frames and conditions for BUDs. For example, Category 2 includes preparations that can have a longer BUD, that generally involves more complex compounding processes or where multiple preparations are made, hence the handling and storage conditions differ significantly from those in Category 1. Categories 3 and 4 are even more extensive and involve either extended BUDs under various storage conditions or non-sterile to sterile preparations, which are not applicable for a CSP with a BUD of only 12 hours. Therefore, understanding the limitations

**4. What are the goals for facilities and engineering controls to minimize microbial contamination?**

- A. Preventing personnel movements**
- B. Prevent airborne contaminants with air quality standards**
- C. Limiting accessibility to the workspace**
- D. Implementing fewer cleaning protocols**

The goal of minimizing microbial contamination in facilities and engineering controls is to ensure high air quality standards that prevent airborne contaminants. Maintaining strict air quality helps to reduce the risk of contamination during the compounding process, which is critical in sterile environments. By controlling airflow, filtration, and pressure differentials, facilities can create a controlled environment that minimizes the introduction of microbial pathogens into the workspace. This focus on air quality is essential because airborne contaminants can easily settle on surfaces or into compounded preparations, potentially leading to infections or product contamination. Standards for air quality are established based on the class of the environment; for instance, a Class 100 cleanroom requires that the air contains no more than 100 particles per cubic meter of air. Other options, while they may have some relevance to facility design and operation, do not directly focus on the critical goal of controlling air quality to minimize microbial contamination. For example, preventing personnel movements and limiting accessibility can help to some extent but do not address the airborne contamination aspect as effectively as maintaining stringent air quality controls. Similarly, reducing cleaning protocols would likely increase the risk of contamination, contradicting the goal of maintaining a sterile environment.

**5. What is a characteristic of a negative pressure room in a Sterile Compounding Environment?**

- A. A. Positive air pressure drafting**
- B. B. Lower air pressure than adjacent areas**
- C. C. Enhanced ventilation**
- D. D. Increased air quality**

A negative pressure room in a sterile compounding environment is characterized by having lower air pressure than the surrounding areas. This setup is essential for controlling the movement of air, ensuring that any contaminants from the compounding area do not escape into adjacent spaces. By maintaining a pressure that is lower than that of the outside or surrounding areas, the airflow is directed inward, effectively containing any hazardous substances or particles. This is particularly important in the context of compounding environments, where the possibility of contamination must be minimized. Negative pressure rooms are often used to protect the environment and personnel in situations where compounding hazardous drugs is taking place, preventing any airborne contaminants from spreading beyond the designated area. Other characteristics, like positive air pressure drafting, enhanced ventilation, or increased air quality, describe different types of environments and their controls, but they do not apply to negative pressure rooms specifically. Positive air pressure rooms could actually push particles outwards rather than contain them, which is counter to the goal of maintaining a controlled environment in sterile compounding areas.

**6. Which of the following best describes the air quality requirement in a buffer area for secure compounding?**

- A. A. Must maintain positive air pressure**
- B. B. Must include a minimum of 30 air changes per hour**
- C. C. Should have no restrictions on air changes**
- D. D. Needs to be equal to ante area standards**

The air quality requirement in a buffer area for sterile compounding is essential to ensure the safety and effectiveness of compounded medications. The correct choice indicates that the buffer area must include a minimum of 30 air changes per hour. This air change rate is crucial because it helps to reduce the risk of contamination from particulates or microorganisms that might compromise sterile preparations. The high number of air changes ensures that fresh air is continuously supplied, and any contaminants are effectively diluted and removed. This is especially important in settings where sterile products are prepared, as even minute levels of contamination can lead to serious health risks for patients. Meeting this standard helps to maintain a controlled environment that adheres to the stringent requirements necessary for safe compounding practices. In contrast, the other options do not align with the established standards for air quality in a buffer area. Positive air pressure is important, but on its own, it doesn't ensure sufficient air turnover. Any mention of no restrictions on air changes would imply inadequate ventilation, which is not safe for compounding. Lastly, while ante area standards may be related, the buffer area requires its own specific air quality metrics that are distinct from the ante area standards. Thus, maintaining at least 30 air changes per hour is a fundamental requirement for

**7. What type of cleaning agent is used to remove dirt, debris, microbes, and residuals from the PEC?**

- A. Disinfectant**
- B. Surfactant**
- C. Solvent**
- D. Abrasive cleaner**

The correct choice is a surfactant because surfactants are specifically designed to lower the surface tension between different substances, such as water and oil. This property enables them to effectively bind to dirt, debris, and microbes, allowing for more efficient cleaning when used on surfaces like the Primary Engineering Control (PEC) in sterile compounding environments. Surfactants help lift and emulsify contaminants, making them easier to remove during the cleaning process. In contrast, disinfectants are primarily used to kill or inhibit the growth of microorganisms rather than to physically remove debris. Solvents, while useful for dissolving certain residues, do not necessarily provide the cleaning action needed against a broad range of contaminants. Abrasive cleaners may damage sensitive surfaces, which is counterproductive in maintaining the integrity of the PEC crucial for sterility in compounding spaces. Thus, selecting a surfactant ensures that the cleaning agent can effectively perform its function without compromising the surface quality or sterile environment.

**8. Are all cleaning supplies inside the hood required to be sterile according to USP 797?**

- A. Yes, they must be sterile**
- B. No, they do not need to be sterile**
- C. Only certain supplies need to be sterile**
- D. It depends on the type of procedure**

The correct understanding regarding cleaning supplies inside the hood, according to USP 797, is that not all cleaning supplies need to be sterile; rather, they must be appropriate for maintaining a clean and controlled environment. The purpose of cleaning supplies, such as detergents and disinfectants, is to reduce microbial contamination and ensure a sterile area for compounding. While it is critical that the working area is maintained in a clean and sterile condition, not all items placed inside the hood are required to be sterile themselves. Supplies like gloves, wipes, and cleaning agents need to be effective in cleaning but do not necessarily have to be sterile. The focus is on maintaining a sterile environment to protect the compounded preparations, rather than the sterility of the cleaning agents themselves. This understanding clarifies that the requirements are not as strict for all items in the hood, allowing for effective cleaning and sanitization without necessitating sterility for every object involved in the process.

## 9. What is the BUD for Category 1 compounding?

- A. 4 days room temperature
- B. 12 hours room temperature**
- C. 60 days room temperature
- D. 24 hours refrigerated

The BUD, or beyond-use date, for Category 1 compounding is 12 hours at room temperature. This classification pertains to preparations that are compounded using non-sterile ingredients and are intended for immediate use, typically in situations where the compounded medication must be administered within that short timeframe to ensure both safety and efficacy. The reasoning behind this is that Category 1 compounds are more susceptible to contamination and degradation than those in other categories, which may justify the shorter BUD. In a sterile compounding environment, maintaining strict adherence to these guidelines is essential to patient safety, as the risk of infection or lack of potency is heightened with longer storage times. For the other options, a BUD of 4 days, 60 days, or 24 hours refrigerated doesn't align with the specific standards set for Category 1 compounds. Each of those options reflects guidelines associated with different categories of compounding or storage conditions that are not relevant in this context.

## 10. What is a key requirement for environments where sterile preparations are compounded?

- A. Controlled lighting
- B. ISO class 5 or better**
- C. Frequent cleaning
- D. Low traffic

A key requirement for environments where sterile preparations are compounded is maintaining an ISO class 5 or better classification. This specifies that the air cleanliness level in the compounding area must have a maximum allowable particle count of less than 3,520 particles per cubic meter of air that are 0.5 micrometers or larger. ISO class 5 ensures that the environment is sufficiently clean to minimize the risk of contamination during the preparation of sterile products, protecting patient safety and ensuring the efficacy of the compounded medications. While controlled lighting, frequent cleaning, and low traffic can all contribute to maintaining a sterile environment, they do not specifically address the air quality and contamination control requirements mandated by ISO standards. The focus on ISO classifications exists to standardize and regulate the compounding environments, which is crucial for facilities involved in sterile compounding practices.

# Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://sterilecompoundingmod1.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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