

SI Pharmacy Technician - Full Discipline Demo

Aseptic Technique

Final Report - Answer Guide

Institution	Science Interactive University
Session	SI Pharmacy Technician - Full Discipline Demo
Course	SI Pharmacy Technician - Full Discipline Demo
Instructor	Sales SI Demo

Test Your Knowledge

Classify each statement regarding aseptic technique as true or false.

⚡ Frequently missed areas of the hand during washing include between the fingers and under the fingernails.	
⚡ Hands do not need to be washed if gloves are being worn.	
⚡ In addition to proper hand washing, any equipment must be fully disinfected both before and after use.	
⚡ Non-sterile compounding does not require aseptic technique.	
⚡ Proper aseptic handwashing technique includes scrubbing soap using circular motions from the fingers to the elbows.	
True	False
1	2

Correct answers:

1

In addition to proper hand washing, any equipment must be fully disinfected both before and after use.

Frequently missed areas of the hand during washing include between the fingers and under the fingernails.

Proper aseptic handwashing technique includes scrubbing soap using circular motions from the fingers to the elbows.

2 Non-sterile compounding does not require aseptic technique.

Hands do not need to be washed if gloves are being worn.

Match the personal protective equipment with the correct description.

⚡ Face Mask	Must open in the back and have long sleeves that end in an elastic or knit cuff. Serve to both prevent the spread of pathogens from personal clothing and protect personal clothing from any splashes or spills of the compounding ingredients.	1
⚡ Gloves	Contain exhaled respiratory droplets and prevent them from being transmitted onto the equipment and ingredients being used for sterile compounding. Can also protect the pharmacy technician from any potentially dangerous splashes or fumes from the compounding ingredients.	2
⚡ Gown	Should completely cover each shoe and serve to protect the shoes from any splashes or spills of the compounding ingredients.	3
⚡ Head Cover	Designed to contain any loose hairs that could fall from the scalp into the compounding ingredients.	4
⚡ Shoe Covers	Protect hands from exposure to potentially dangerous drugs and chemicals. They also prevent contamination of the medication by limiting the spread of microorganisms present on the skin to the ingredients.	5

Correct answers:

1 Gown 2 Face Mask 3 Shoe Covers 4 Head Cover 5 Gloves

Exploration

_____ prevent the spread of pathogens from personal clothing and protect personal clothing from splashes or spills of the compounding ingredients.

- ☐ Face masks
- ☒ Gowns ✓
- ☐ Gloves
- ☐ Shoe covers

Proper aseptic technique dictates scrubbing from the fingertips all the way up to the elbows.

- ☒ True ✓
- ☐ False

The United States Pharmacopeia (USP) chapter <797> provides the standards for compounding non-sterile products.

- ☐ True
- ☒ False ✓

Exercise 1

When would proper aseptic technique be required?

Why was it necessary to wash your hands before putting on the gloves?

Could you reuse any of the PPE you put on in this exercise? Why or why not?

In what environment would the PPE used in this exercise be required?

Photo 1: Full PPE
(SAMPLE ANSWER BELOW)





Competency Review

Preparation of which of the following requires sterile compounding?

- ☐ Capsules
- ☐ Ointments
- ☐ Emulsions
- ☒ Injectables

✓

Hands are the main source of contamination, and therefore are the only things that need to be cleaned when performing aseptic technique.

- ☐ True
- ☒ False

✓

Gowning practices typically start at the top and work downward from cleaner to dirtier areas.

- ☒ True ✓
- ☐ False

Which of the following is permissible to wear during sterile compounding?

- ☐ Rings as long as they are under gloves
- ☐ Makeup as long as a face covering is worn
- ☒ Personal clothing under a gown ✓
- ☐ Long nails as long as they are painted

During aseptic hand washing in Exercise 1, in what direction did your fingers point when rinsing your forearms and hands?

- ☐ Upward
- ☒ Downward ✓
- ☐ To the side
- ☐ It did not matter

When performing proper aseptic technique, the forearms and hands should be lathered with soap for at least ____ seconds.

- ☐ 10
- ☐ 20
- ☒ 30 ✓
- ☐ 40

What was the last piece of PPE you put on when gowning in Exercise 1?

- ☒ Gloves
- ☐ Gown
- ☐ Shoe covers
- ☐ Hair cover
- ☐ Face mask



The opening of the gown worn for sterile compounding should face the front.

- ☒ True
- ☐ False



Extension Questions

This lesson focused on aseptic technique and the PPE required for compounding sterile products. What else do you think would be required to perform sterile compounding to eliminate the possibility of contamination from the environment? (SAMPLE ANSWER BELOW)

Answers will vary. Sterile compounding also requires sterile equipment, a sterile workspace, and often times a fume hood.