

CLASSROOM PRACTICAL INSTRUCTION GUIDE: DONNING AND DOFFING OF PERSONAL PROTECTIVE EQUIPMENT IN BSL-2/3 NON-MOLECULAR LABORATORY

PURPOSE:

This is a practical exercise to be used in the classroom to demonstrate an individual's ability to apply biosafety principles and practices in donning and doffing of personal protective equipment.

Persons taking the training will first observe a demonstration, and then attempt to repeat the procedure in various scenarios in a manner that conforms to all biosafety regulations and practices.

The Instructor Guide is one of two materials developed for this exercise. This guide is to be used with the Donning and Doffing Handout.

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PERSONAL PROTECTIVE EQUIPMENT IN BSL-2/3 LABORATORY**

Training Packet Contents:

Biorisk Manual
 Personal Protective Equipment SOP
 Classroom Practical Instruction Guide
 Donning and Doffing Handout or Demonstration

Equipment/Supplies:

Head cover
 Shoe covers
 Safety glasses or goggles
 Face shield
 Sleeve protectors
 Laboratory coat
 Disposable gloves (latex or nitrile)
 Respirator, N95

Procedure:

Different types of PPE should be made available for training. Trainee shall explain the PPE needed to enter a BSL-2 and BSL-3 laboratories.

PPE Needed:

BSL-2	BSL-3
Laboratory coat	Solid front gown
Shoe covers (optional)	Shoe covers (optional)
Respirator (optional)	Respirator
Safety glasses, goggles or face shield	Safety glasses, goggles or face shield
Sleeve protectors (optional)	Sleeve protectors (optional)
Gloves	Gloves X2
	Cap (optional)

Follow hand-out for detailed donning procedures.

Order of Donning:

BSL-2	BSL-3
Laboratory coat	Solid front gown
Shoe covers (optional)	Shoe covers (optional)
Respirator (optional)	Respirator
Safety glasses, goggles or face shield	Safety glasses, goggles or face shield
Cap (optional)	Cap (optional)
Sleeve protectors (optional)	Sleeve protectors (optional)
Gloves	Gloves

Note: Emphasize donning additional gloves upon entering BSL-3 laboratory.

Explain the differences in normal and emergency PPE. The selection of PPE during an

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emergency situation should be based upon the highest possible level of contamination that could potentially exist in the room where the emergency has occurred. Risk assessment should be based upon what is known about the operations that were conducted in the room during, and prior to, the current incident and should be conducted by an individual knowledgeable of the principles of a risk assessment. The following PPE recommendations are given as a guide. Additional PPE may be required based on a risk assessment.

Emergency PPE:

BSL-2	BSL-3
Gloves	A complete change of protective clothing
Shoe covers	Gloves Tyvek® Coveralls
Eye protection	Boots
A laboratory gown impervious to liquids	Face shields
Respirator (when required by a risk assessment)	Respirator, appropriate for the hazard
	Hearing protection
	Eye protection

Instruct the trainee to doff the PPE in the following sequence:

Order of Doffing:

BSL-2	BSL-3
Sleeve protectors	Gloves
Cap	Sleeve protectors
Safety glasses, goggles or face shield	Cap
Disposable gown	Safety glasses, goggles or face shield
Respirator	Disposable gown
Shoe covers	Respirator
Gloves	Shoe covers
	Gloves

Ensure the trainee washes his hands before leaving the laboratory.

Observe the trainee cleaning the reusable PPE.

Observe the trainee storing the PPE.

The following task should be evaluated:

1. Choosing correct PPE
2. Donning PPE
3. Doffing PPE
4. Cleaning PPE
5. Storage of PPE