

# **FACILITATOR GUIDE**

## **Training on Proficiency Testing Scheme (GeneXpert DTS)**

### **Module 2: Biosafety in PT preparation**

#### **Acknowledgements**

This Module was prepared by Pius Lutaaya.

GXPT/FG/002

Version 2.0

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The inputs provided by the representatives of SRL-Uganda are acknowledged.

## **Part 2.0: Biosafety in PT preparation**

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**OBJECTIVE:** To acquaint participants with Knowledge of Biosafety in PT preparation in the following areas

- To understand the different biosafety levels in the TB laboratory
- Know the different PPE used in a TB laboratory
- Understand the use of different disinfectants
- To appreciate waste management principles

**MATERIALS:**

1. Handouts,
2. Slides
3. PPE: gloves, lab coats/gowns, lab shoes/shoe covers and N95 respirators

**TIMELINE:** 45 Minutes

**METHODOLOGY:**

1. Lecture
2. Discussion
3. Demonstration
4. Video where appropriate

**ADVANCE PREPARATION:**

1. Printing notes,
2. Reading Biosafety materials and slides
3. Preparing the PPE demonstration materials: gloves, lab coats/gowns, N95 respirators and lab shoes/shoe covers.


**FACILITATORS STEP-BY STEP INSTRUCTIONS:**

1. Welcome and Introduction
2. Present module overview
3. Ask question about module expectations
4. Distribute handouts
5. Start the presentation
6. Recap presentation using discussion questions
7. Personal Protective Equipment demonstration
8. Ask if there is any question.

**FACILITATORS NOTES**

1. Notes on Personal Protective Equipment
2. Discussion questions; how you manage spillage in molecular lab, what safety measure are required in a TB lab.
3. Instructions on demonstration

## SLIDE OF POWERPOINT PRESENTATION



**THE REPUBLIC OF UGANDA  
MINISTRY OF HEALTH**

**UGANDA Supranational<sup>®</sup>  
Reference Laboratory**  
*Timely Accurate Diagnostics for a TB-Free Africa*

**Training on Proficiency Testing Scheme  
(GeneXpert DTS)**

**Module 2: Biosafety in GeneXpert PT preparation**

**Dd-dd-Month-Year**  
**Facilitator's name**  
**Venue**

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### SITUATION ANALYSIS/ EXERCISES

Ask for a volunteer (s) to practice donning and doffing of PPE

#### Gloves

- Assess how well the gloves are put on/don
- Ensure that double gloving is maintained
- Observe the removal/doff of the gloves: ensure that contamination of the dirty/ contaminated gloves does not touch the skin

#### N95 respirator

- Observe procedure of putting on the respirator.
- Straps should be hanging freely under the palm.
- Respirator should be placed on the face without touching the inside.
- Metal clip of the respirator should sit on the nose and should be carefully molded to conform to the nose of the user.
- Comment about the labeling and storage of the respirators

#### Laboratory gown

- Observe if the person correctly ties the four straps of the gown.
- Observe whether the gown is correctly removed taking care not to contaminate the inside part.

#### Respirator fit testing

- Play the 8-minute video that demonstrates the fit testing procedure
- After the video explain the various components of the fit testing kit

Get a volunteer and demonstrate to the class how to conduct the fit testing. Allow at least 2 or 4 persons to come be fit tested by the fellow participants. Observe and guide the class through the various activities of the fit testing session.

## **ASSESSMENT REVIEW**

ASK true/false

1. Surgical masks protect you from TB infection.
2. Remove personal protective equipment in the following order;
  - respirator/mask
  - disposable gloves
  - gowns/coats/suits/overalls.
3. In case of spills outside the BSC, you should evacuate the room and stay outside with the door closed for at least 30 minutes.

## **REFERENCES**

- GLI TB training package <http://www.stoptb.org/wg/gli/trainingpackages.asp>
- Power point slides for lab biosafety and biosecurity course, WHO/CDC ACILT
- Sandia GBRMC materials.