



# COVID-19 LABORATORY DIAGNOSIS TRAINING

## FACILITATORS' GUIDE

**March 2021**

**Addis Ababa**

**Ethiopia**





**COVID-19 LABORATORY DIAGNOSIS**  
**PARTICIPANTS' MANUAL**

**March 2021**  
**Addis Ababa**  
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## **Course Description**

This five-day training course is prepared for laboratory professional involved in COVID-19 lab diagnosis. It enables them to conduct standard safety practice, sample management, testing and result interpretation.

## **Goal**

To provide the participant with knowledge, skill and attitude needed for COVID-19 laboratory diagnosis.

**Participant Learning Objectives:** By the end of this training course the participant will be able to:

- Describe COVID-19 disease;
- Demonstrate COVID-19 biosafety and biosecurity standards during COVID-19 diagnosis;
- Demonstrate COVID-19 specimen management;
- Describe different principles and application of RT-PCR and Ag RDT for SARS-cov-2 detection;
- Demonstrate principles and application of RT-PCR and Ag RDT for SARS-cov-2 detection;
- Describe Quality assurance in RT-PCR for SARS-CoV-2

## **Training /Learning Methods**

- Guided Practice
- Demonstration
- Illustrated Lecture
- Role Play
- Case scenario
- Laboratory attachment
- Group discussion

## **Training Materials**

- COVID-19 Laboratory Diagnosis package ( PPT, Participant manual and facilitator Guide)
- LCD projectors, flip charts, markers, laptop computers
- PPE materials, facility
- Laboratory Reagents
- Laboratory used material and equipment in RT-PC(RT-PCR machine, Heat block/incubator, Micro-centrifuge, etc)

## **References**

1. WHO
2. IATA
3. CDC
4. MOH
5. ISO15189 &15190
6. Published researches
7. Other well-known e-learning source

## **Participant Selection Criteria**

Participant for this course should be laboratory professional who are responsible for performing RT-PCR COVID-19 lab diagnosis.

- Having a minimum of BSc degree and having working experience in laboratory practice.

## **Method of Evaluation**

### **▪ Participant**

#### **• Formative**

- Pre test
- Group exercise
- Demonstration

#### **• Summative**

- Knowledge assessment (50%): post course questioners
- Evaluation of participant practical session (45%)
- Participant attendance (5%)

### **▪ Course Evaluation**

- Daily evaluation
- Daily trainer's feedback meeting
- End of course evaluation

### **Certification Criteria**

- Participants will be certified when they score more than 70% or 85% in summative assessment (Basic training: 70%, TOT:85%)

### **Trainer selection criteria**

- Facilitation training skill course and
- Trained and experienced on COVID-19 RT-PCR lab diagnosis or
- Involved in COVID-19 RT-PCR lab diagnosis module preparation

### **Course Venue**

- In-service training center with functional internet service

### **Course Duration**

- Five Days

### **Course composition**

- Sixteen(16) participants
- Four(4) trainer