

# **Routine Microscopy Procedures**

## **Basic Microbiology Curriculum**

SPONSORED BY THE CENTERS FOR DISEASE CONTROL AND  
PREVENTION LABORATORY TRAINING BRANCH

AN ONLINE LEARNING/ELEARNING COURSE  
AVAILABLE AT [WWW.CDC.TRAIN.ORG](http://WWW.CDC.TRAIN.ORG)



**U.S. Department of  
Health and Human Services**  
Centers for Disease  
Control and Prevention

## DESCRIPTION

This eLearning course is designed to familiarize laboratorians with routine microscopy procedures used in the microbiology laboratory. Laboratorians will explore the required steps for a smear preparation as well as the requirements for preparing and interpreting the results of Gram stains, wet mounts, potassium hydroxide (KOH), and India Ink procedures.

## AUDIENCE

New or existing public health laboratorians, who have a science background, are entering or reentering the microbiology field and who need training in routine microscopy techniques essential for performing job requirements.

## SPECIAL NEEDS

Course content is closed captioned where applicable and optimized for a screen reader.

## FREE REGISTRATION

- Register online at [www.cdc.gov/labtraining](http://www.cdc.gov/labtraining)
- If you have difficulty with the online registration process, please email [labtraining@cdc.gov](mailto:labtraining@cdc.gov)
- For additional program information, email [labtraining@cdc.org](mailto:labtraining@cdc.org) or call (404) 498-6022

## CE INFORMATION

P.A.C.E.™ Course Number: 288-026-15

FL Course Number: 20-434651

## CONTINUING EDUCATION

The Centers for Disease Control and Prevention Laboratory Training Branch is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for 1.5 contact hours.

This course has been approved for 1.5 contact hours in the category of Microbiology/Mycology/Parasitology for Florida Laboratory Licensees.

## OBJECTIVES

At the conclusion of this program, the participant will be able to:

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- Outline the steps of preparing a smear.
- Express the purpose of the Gram stain procedure.
- Identify the types of reagents used in the Gram stain procedure.
- Sequence the steps in the Gram stain procedure.
- Interpret the results seen in the bacterial cells, with the effects of the various reagents during the Gram stain procedure.
- Outline the potassium hydroxide (KOH) procedure and its uses.
- Identify how to prepare and interpret a wet mount.
- Identify the steps and results obtained in the India ink procedure.
- Identify and resolve commonly encountered problems during routine microscopy procedures.

For a complete list of courses, visit [www.cdc.gov/labtraining](http://www.cdc.gov/labtraining).