Laboratory Improvement

Workshops 2012

Consultation, Compliance, and Continuing Education

NCPH
North Carolina Public Health

North Carolina State Laboratory of Public Health

http://slph.ncpublichealth.com

Approved P.A.C.E.® Program provider

Fax application to 919-715-9243

NCPH
North Carolina Public Health

State Laboratory of Public Health

MISSION

The mission of the State Laboratory of Public Health is to provide certain medical and environmental laboratory services (testing, consultation, and training) to public and private health provider organizations responsible for the promotion, protection, and assurance of the health of N.C. citizens.

Laboratory Improvement's Objectives

To support N.C. laboratorians in achieving and maintaining high standards of lab practice through effective consultation and the delivery of comprehensive and relevant training while striving to serve as a model for other training units.

1. Provide consultation and leadership to laboratories, state agencies, and other states.
2. Ensure regulatory compliance and provide technical services for CLIA contract counties.
3. Develop and make available continuing education opportunities and resources.
4. Serve as an advocate for laboratorians.
5. Maintain and distribute microbiological cultures.
6. Perform quality control on gonorrhoeae-selective media.

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Workshop Schedule for 2012 Training

Microscopy: Viewing & Reviewing (Basic)
Jan. 25 **(Pg. 11)**

Examination of a Vaginal Wet Mount
Jan. 26 **(Pg. 12)**

Laboratory Methods in the Diagnosis of Gonorrhea
Feb. 8-9 **(Pg. 13)**

Bioterrorism Preparedness for Clinical Laboratories
Feb. 16 **(Pg. 14)**

Process Control Chemistry
Feb. 21-24 **(Pg. 15)**

Syphilis Serology
Mar. 8 **(Pg. 16)**

Bacteriological Methods for the Analysis of Drinking Water (shortened version)
Mar. 20-22 **(Pg. 17)**

Microscopy: Viewing & Reviewing (Advanced)
Apr. 18 **(Pg. 18)**

Examination of a Vaginal Wet Mount
Apr. 19 **(Pg. 12)**

Laboratory Methods in the Diagnosis of Gonorrhea
May 16-17 **(Pg. 13)**

2012 Packaging and Shipping Regulations
May 24 **(Pg. 19)**

Microscopy: Viewing & Reviewing (Basic)
July 25 **(Pg. 11)**

Examination of a Vaginal Wet Mount
July 26 **(Pg. 12)**

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Workshop Schedule for 2012 Training CONT.

Bacteriological Methods for the Analysis of Drinking Water
Aug. 7-10 **(Pg. 20)**

Bioterrorism Preparedness for Clinical Laboratories
Aug. 16 **(Pg. 14)**

Basic Urinalysis
Aug. 29-30 **(Pg. 21)**

Laboratory Methods in the Diagnosis of Gonorrhea
Sept. 12-13 **(Pg. 13)**

Process Control Chemistry
Sept. 18-21 **(Pg. 15)**

2012 Packaging and Shipping Regulations
Sept. 25 **(Pg. 19)**

Good Laboratory Practices for Waived Testing
Sept. 27 **(Pg. 22)**

Microscopy: Viewing & Reviewing (Basic)
Oct. 24 **(Pg. 11)**

Examination of a Vaginal Wet Mount
Oct. 25 **(Pg. 12)**

Bacteriological Methods for the Analysis of Drinking Water (shortened version)
Nov. 7-9 **(Pg. 17)**

Bioterrorism Preparedness for Clinical Laboratories
Dec. 13 **(Pg. 14)**

Fax application to 919-715-9243

Workshop Schedule for 2012 Training CONT.

In order to apply for any of our workshops, please fill out the workshop application found on our website,

http://slph.ncpublichealth.com/doc/WorkshopAplication.pdf

Mail or FAX completed application to

Laboratory Improvement
PO Box 28047
Raleigh, NC 27611
FAX: (919) 715-9243

Please call with any questions, (919) 733-7186

Web Conferencing NCLTN

North Carolina Laboratory Training Network

The North Carolina Laboratory Training Network (NCLTN) offers certain medical laboratory personnel extended opportunities for obtaining continuing education without traveling, using online web conferencing through Adobe Connect®. Teleconferences, workshops, and regional meetings will be held throughout the year. Please check your e-mail for announcements and registration links for web based training opportunities.

On-line Studies

1. **Newborn Screening Form Training** **(Pg. 23)**
2. **Urine Microscopic Examination** **(Pg. 24)**
3. **Chlamydia/Gonorrhea Vaginal Specimen Collection and Form Training** **(Pg. 25)**
4. **Guide to Rabies Packaging and Shipping** **(Pg. 26)**

Additional Workshops May Be Added During the Year

Fax application to 919-715-9243

Meet the Laboratory Improvement Staff

Patty Atwood
BS, MT (ASCP)
Unit Supervisor

Kristy Breedlove
BS
Consultant

Michaela Harvey-Creech
BS, MT
Consultant

Sherri Felts
BS, MT (ASCP)SBB
Regional Consultant
Greenville, N.C.

April Hill
BS, MLS (ASCP)
Regional Consultant
Asheville, N.C.

Tiffany Perdue
BS, MLS (ASCP)
Consultant

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Meet the Laboratory Improvement Staff CONT.

Michelle Rufus
Business Services
Coordinator

Diana Scarborough
AAS, ASCP
Laboratory Manager

Tracey Shives
BS, MT (ASCP)
Regional Consultant
Winston-Salem, N.C.

Karen Wall
BS, MT (ASCP)
Regional Consultant
Fayetteville, N.C.

Janice West
BS
Laboratory Technician

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Workshop Information

All workshops, unless otherwise stated, are held at the State Laboratory of Public Health, Bath Building, 306 N. Wilmington St., Raleigh, N.C. Workshops are held in the second floor classroom, room #207, of the Bath Building. To apply for a workshop, each applicant must complete an application form and send it to the address listed on the application. ***Do not send the fee with the application***. If more than one person per facility applies, the supervisor must specify priority for acceptance since participation is limited. Notice of acceptance and information about class hours, hotels, and parking will be e-mailed or faxed the week following the application deadline. Fees for workshops are payable after receipt of the acceptance letter. All workshop materials and manuals are included in the fee. Participants are responsible for their own transportation, lodging and meals. Continuing Education Contact Hours are awarded upon completion of the class. Participants must stay for the entire workshop to receive CE certificates.

Students attending workshops at the State Laboratory of Public Health need to wear closed-toed shoes and bring a picture ID. Please review workshop announcements closely. Some may have additional information specific to that workshop.

Visitor Registration Requirements for Access to State Lab

Visitors to the State Laboratory of Public Health must register with a visitor management and tracking software system, LobbyGuard, upon entering the Bath Building. This user-friendly security system is housed in a small self service kiosk at the front desk. Visitors are instructed through the sign-in and sign-out process with visual and audio cues. A photo ID, such as a driver's license or state employee badge, is required to activate the process. **Doors to the Bath Building open at 8am.**

Fax application to 919-715-9243

Workshop Information CONT.

Special Needs

In compliance with the American Disabilities Act, individuals needing special accommodations should notify Lab Improvement at least two weeks prior to the workshop by calling 919-733-7186.

Continuing Education Credit

The North Carolina State Laboratory of Public Health (NCSLPH) is approved as a provider of continuing education programs in the clinical laboratory sciences by the American Society for Clinical Laboratory Science P.A.C.E.® Program.

In order to apply for any of our workshops, please fill out the workshop application found on our website,

http://slph.ncpublichealth.com/doc/WorkshopAplication.pdf

Mail or FAX completed application to

Laboratory Improvement
PO Box 28047
Raleigh, NC 27611
FAX: (919) 715-9243

Please call with any questions, (919) 733-7186

Fax application to 919-715-9243

Microscopy: Viewing and Reviewing (Basic)

Michaela Harvey-Creech
Workshop Director
P.A.C.E. Contact Hours: 5.5
Fee: $20.00

Shortened to one day!

This basic level course is a prerequisite for workshops requiring the use of a microscope. Students are taught the principles of the brightfield microscope and the practical use of the precision instrument. Participants will develop skills in microscopy that are required for the proper performance of the microscope. At the end of the workshop, participants will be able to:

- Identify all parts of a microscope and understand the function of each.
- Clean and maintain the microscope.
- Properly align the light to improve contrast and resolution using the Koehler Illumination technique.
- List features to consider when purchasing a microscope.

Students are encouraged to improve their microscopy skills by practicing the techniques learned in class while working with a more experienced user. The intended audiences are nurses and other nonlaboratory trained professionals whose responsibilities include microscopic work.

Note: Previous participants of this class who have not developed microscopy skills from practical experience, are advised to refresh their training by taking the one-day *Advanced Microscopy Workshop*.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Jan. 25, 2012	Dec. 25, 2011	196-301-12
July 25, 2012	June 25, 2012	196-302-12
Oct. 24, 2012	Sept. 24, 2012	196-303-12

Fax application to 919-715-9243

Examination of a Vaginal Wet Mount

Michaela Harvey-Creech
Workshop Director

P.A.C.E. Contact Hours: 5.5

Fee: $20.00

In this basic level course, participants learn techniques that are used in the identification and reporting of elements found in vaginal wet mount preparations. The one-day course incorporates lectures and laboratory exercises including preparing wet mounts and identifying Trichomonas, yeast, "clue cells," and cocci in chains in clinical specimens. A laboratory practical exam will be given at the end of the course.

Note: Applicants must have attended the workshop, *Microscopy: Viewing & Reviewing*. No exceptions will be made.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Jan. 26, 2012	Dec. 26, 2011	196-501-12
Apr. 19, 2012	Mar. 19,2012	196-502-12
July 26, 2012	June 26, 2012	196-503-12
Oct. 25, 2012	Sept. 25, 2012	196-504-12

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Laboratory Methods in the Diagnosis of Gonorrhea

Tiffany Perdue
Course Director

P.A.C.E. Contact Hours: 11.0

Fee: $40.00

This basic level workshop provides participants with technical skills and knowledge to perform laboratory procedures used in the isolation and identification of *Neisseria gonorrhoeae*. This is a performance-oriented course that includes "hands-on" experience with specimens, and is designed for staff who perform laboratory tests for gonorrhea from cultures and male urethral smears. Lectures and labs include history of gonorrhea, basic bacteriology, quality assessment, and microbiological techniques used in the presumptive diagnosis of gonorrhea. A laboratory practical exam will be given at the end of the course.

Note: Applicants must have attended the workshop *Microscopy: Viewing & Reviewing*. No exceptions will be made.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Feb. 8-9, 2012	Jan. 9, 2012	196-111-12
May 16-17, 2012	Apr. 17, 2012	196-112-12
Sept. 12-13, 2012	Aug. 13, 2012	196-113-12

Fax application to 919-715-9243

Bioterrorism Preparedness for Clinical Laboratories

La'Vonda Benbow
Workshop Director

P.A.C.E. Contact Hours: 6.5

Fee: $40.00

This intermediate level one-day program will focus on practical methods clinical laboratorians can use to recognize the agents of bioterrorism. Participants will learn about surveillance, evaluation, and confirmatory procedures which can be integrated into the routine work of the microbiology laboratory. Procedures for referring suspect cases will also be discussed.

Laboratory presentations and demonstrations will outline the microbiology of these agents so that participants can recognize their culture, staining and biochemical characteristics. The safety implications of handling suspected organisms in clinical isolates and cultures and toxins will be emphasized. Chemical terrorism topics as well as procedures for referring suspect cases will be discussed.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Feb. 16, 2012	Jan. 16, 2012	196-101-12
Aug. 16, 2012	July 16, 2012	196-102-12
Dec. 13, 2012	Nov. 13, 2012	196-103-12

Fax application to 919-715-9243

Process Control Chemistry

Kristy Breedlove
Workshop Director

P.A.C.E. Contact Hours: 20.0
NCWOA Professional Growth Hours: 20.0

Fee: $120.00 (fee includes examination)

This intermediate level workshop provides participants with the technical skills and knowledge to perform approved chemical laboratory procedures for the analysis of drinking water.

Upon completion of the course, the participant will be able to describe approved methods to test for those parameters used in process control, safety, and general laboratory practices and then apply them to the analysis of unknown samples using approved methodologies.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Feb. 21-24, 2012	Jan. 24, 2012	196-401-12
Sept. 18-21, 2012	Aug. 21, 2012	196-402-12

Fax application to 919-715-9243

Syphilis Serology

Tiffany Perdue
Workshop Director

P.A.C.E. Contact Hours: 5.5

Fee: $20.00

This basic level workshop provides participants with current information and technical skills necessary to perform syphilis serology testing. This technical workshop is performance based including "hands-on" experience with specimens in carefully planned exercises. Lectures include the history of syphilis, testing at the N.C. State Laboratory of Public Health, and reporting requirements for the Division of Public Health. Laboratory exercises include exercises in qualitative and quantitative procedures. Several commercial kits will be demonstrated and used.

Workshop Date:	Application Deadline Date:	P.A.C.E. Program #
Mar. 8, 2012	Feb. 8, 2012	196-141-12

Fax application to 919-715-9243

Bacteriological Methods for the Analysis of Drinking Water (Shortened Version)

Kristy Breedlove
Workshop Director

P.A.C.E. Contact Hours: 12.00

NCWOA Professional Growth Hours: 12.0

Fee: $120.00

New & Improved!

This basic level workshop provides participants with the technical skills and knowledge to perform approved bacteriological laboratory procedures for the analysis of drinking water.

Upon completion of this course, participants will be able to describe qualitative and quantitative tests for total coliform and *E. coli* contamination. Heterotrophic plate counts for enumeration of general bacterial populations will also be covered. Knowledge will be gained through lectures and laboratory exercises.

Students will also gain technical skills using selected Chromogenic/Fluorogenic and plate count methodologies in order to perform laboratory analysis of drinking water samples.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Mar. 20-22, 2012	Feb. 22, 2012	196-601-12
Nov. 7-9, 2012	Oct. 9, 2012	196-603-12

Condensed to 2.5 days!

Fax application to 919-715-9243

Microscopy: Viewing and Reviewing (Advanced)

Michaela Harvey-Creech
Workshop Director

P.A.C.E. Contact Hours: 5.5

Fee: $20.00

This one-day advanced level workshop is designed for participants trained in a clinical laboratory science curriculum. The course is similar to the basic microscopy workshop but progresses at a faster pace for the experienced microscope user. Participants will learn the principles and practical use of the brightfield microscope that will enhance the performance of the precision instrument. This workshop is a prerequisite for workshops requiring the use of a microscope. Upon completion of the course, participants will be able to:

- Identify all parts of the microscope and understand the function of each.
- Clean and maintain the microscope.
- Properly align the light to improve contrast and resolution using the Koehler Illumination technique.
- List features to consider when purchasing a microscope.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Apr. 18, 2012	Mar. 18, 2012	196-901-12

Fax application to 919-715-9243

2012 Packaging & Shipping Regulations

Kristy Osterhout
Workshop Director

PACE Credits 6.0 hours

Fee: $20.00

Program Description: The packaging and shipping of clinical laboratory specimens is regulated by the U.S. Dept. of Transportation (DOT), the International Civil Aviation Organization (ICAO) and the U.S. Postal Service (USPS) as a Class 6 hazardous material. The primary goal of these regulations is to ensure the safety of individuals, animals and the environment against risks associated with transporting hazardous materials.

Federal law requires specific training and testing of all individuals "…who affect the transport of hazardous materials in commerce." The North Carolina State Laboratory of Public Health is sponsoring this program to assist employers in certifying their employees to safely collect, package and ship Category A, Category B, Exempt Human and specimens that result from the possible exposure to a chemical terrorism or chemical threat agent.

Attendance will assist in maintaining compliance with the College of American Pathologists (CAP), JACHO, and DOT regulations in effect as of March 2011.

Plan: This intermediate level course integrates lectures and discussions with practice sessions for participants to demonstrate their understanding of the fundamentals necessary for classifying hazardous materials, properly labeling, marking, documenting, and the preservation of evidence and proper chain of custody for chemical terrorism specimens.

Who Should Attend: Safety professionals, persons actively involved in packaging diagnostic and infectious specimens for shipment to reference labs, or diagnostic specimens that result from exposure to a chemical terrorist agent.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
May 24, 2012	Apr. 24, 2012	196-181-12
Sept. 25, 2012	Oct. 25, 2012	196-182-12

Fax application to 919-715-9243

Bacteriological Methods for the Analysis of Drinking Water

Kristy Breedlove
Workshop Director

P.A.C.E. Contact Hours: 20.00
NCWOA Professional Growth Hours: 20.0

Fee: $120.00 (fee includes examination)

This basic level workshop provides participants with the technical skills and knowledge to perform approved bacteriological laboratory procedures for the analysis of drinking water.

Upon completion of the course, participants will be able to describe qualitative and quantitative tests for total and fecal coliform contamination, heterotrophic plate counts, sample collection, methodology, and quality control requirements, and then apply the information to the analyses of unknown samples using approved methodologies.

Workshop Dates:	Application Deadline Dates:	P.A.C.E. Program #
Aug. 7-10, 2012	July 10, 2012	196-602-12

Fax application to 919-715-9243

Basic Urinalysis

Tiffany Perdue
Workshop Director

P.A.C.E. Contact Hours: 11.0

Fee: $40.00

This comprehensive class teaches basic skills for performing the macroscopic and microscopic examination of a urine specimen. The course begins with a review of kidney anatomy and physiology and proceeds with a discussion of quality assessment from specimen collection to reporting test results. Actual urine specimens will be examined for the identification of cells, casts, crystals, and other elements found in normal and abnormal urines. At the conclusion of the course, participants will be able to:

- List factors affecting the quality of a urine specimen.
- Describe the advantage of using a commercial, standardized urine microscopic system.
- Identify and/or describe elements found in urine such as cells, casts, microorganisms, crystals and artifacts.
- List elements of a good quality assessment program for urinalysis.

The intended audiences for this course are nurses and other non-laboratory trained medical professionals who are inexperienced in performing urine examinations. Participants are encouraged to bring a urinalysis reference book.

Note: Applicants must have attended the workshop, *Microscopy: Viewing and Reviewing*. No exceptions will be made.

Workshop Dates:	Application Deadline Date:	P.A.C.E. Program #
Aug. 29-30, 2012	July 30, 2012	196-121-12

Fax application to 919-715-9243

Good Laboratory Practices for Waived Testing

Kristy Breedlove
Workshop Director

P.A.C.E. Contact Hours: 5.5

Fee: $20.00

The Clinical Laboratory Improvement Amendments of 1988 (CLIA) mandated that all test procedures be categorized into one of three complexity levels: high, moderate, and waived (to include point-of-care testing.) Tests designated as waived include those that have been determined to have the least amount of error possible, and negligible consequences should errors occur. CLIA allows for facilities to perform waived testing with few restrictions, as long as the manufacturers' instructions are followed, up to date, and serve as a basis for proper testing.

In this one-day basic-level workshop, participants will review the recommendations published in the November 11, 2005 Morbidity and Mortality Weekly Report (MMWR) "Good Laboratory Practices for Waived Testing Sites." At the end of the workshop, participants will be able to name the government agencies responsible for CLIA regulations and will be familiar with agencies that have been granted "deemed status." They will be able to list the types of CLIA certificates available and be familiar with the testing permitted with each certificate. They will be familiar with the most common waived tests used in a public health setting, and will understand basic principles of good laboratory practices for the three phases of testing (before, during and after) as they relate to waived tests. Finally, participants will be able to review the information in manufacturers' package inserts and determine the proper use of the product and will understand the possible consequences of deviating from these instructions.

Who Should Attend: Attendees should include anyone performing CLIA-waived tests, including point-of-care, physicians' office labs, and local health department settings.

Workshop Date:	Application Deadline Date:	P.A.C.E. Program #
Sept. 27, 2012	Aug. 27, 2012	196-161-12

Fax application to 919-715-9243

Newborn Screening Form On-line Study

Ann Grush
Course Director

P.A.C.E. Contact Hours: 1.5

No Fee

Instructions for completing the newborn screening filter paper form (#DHHS 3105) are available as an interactive, on-line course at http://slph.ncpublichealth.com, under the heading Newborn Screening. Left click on Form Training to access the course. Demonstrations and animations instruct the user in the collection of the infant's blood, application of the specimen to the form, completion of demographic information, and shipping requirements. The training module can be advanced at the user's pace, and ends with an opportunity to take an on-line quiz. At the conclusion of the course, participants will be able to:

- Correctly complete the demographic information on the form.
- Describe the proper blood collection procedure for infants.
- List the unacceptable sites for blood collection from an infant.
- Recognize valid and invalid blood spot specimens on the filter paper form.
- Define the procedures for the proper handling of the forms.

The program is designed for nurses, phlebotomists, clinical laboratory scientists, and other medical professionals with responsibilities in completing and mailing the newborn screening filter paper form.

P.A.C.E. Program # 196-170T-12

Fax application to 919-715-9243

Urine Microscopic Exam On-line Study

Tiffany Perdue
Course Director

P.A.C.E. Contact Hours: 2.5

No Fee

This course has been revised from a hard-copy format into an interactive program that is accessible on the State Lab website at http://slph.ncpublichealth.com under the heading Laboratory Improvement. The study was designed to improve the skills of clinical laboratorians performing a test that is an important, frontline laboratory procedure and should be used as a review, or to enhance formal training in microscopic urinalysis.

The on-line study opens to a series of slides that can be advanced at the user's pace. It begins by describing the procedure for examining urine sediments using a standardized method. Numerous images are used in the study to identify normal and abnormal elements that are observed in urine, as well as artifacts that may be encountered. After completing this course, participants should be able to:

- Describe the procedure for examining urine sediments.
- Identify normal and pathologic elements found in urine.
- Recognize artifacts or contaminates that may be encountered during the examination.
- Quantify and report microscopic findings.

P.A.C.E. Program # 196-121T-12

Fax application to 919-715-9243

Chlamydia/Gonorrhea Vaginal Specimen Collection and Form Training

Mary Noel Dodd
Course Director

Contact Hours: 1.0

No Fee

This training was developed to provide instruction in the collection of vaginal specimens for Chlamydia/Gonorrhea testing and the completion of test request form DHHS #4011.

At the conclusion of the training, participants should be able to:

- Determine if the patient meets the testing criteria established by the laboratory
- Correctly complete the test request form to accurately indicate testing eligibility
- Properly collect a vaginal specimen and submit the specimen to the laboratory using the GenProbe vaginal specimen collection kits
- Recognize reasons for unsatisfactory Chlamydia/GC test results because of improper collection or submission

At the end of the course, participants will be allowed to gauge their level of learning by completing an online quiz. Upon successful completion, the participant will receive a CE certificate for 1.0 contact hours.

To access this training, go to: http://slph.ncpublichealth.com/virology-serology/chlamydia/default.asp

Fax application to 919-715-9243

Guide to Rabies Packaging and Shipping

Peggy Brantley
Course Director

Contact Hours: 1.0

No Fee

Instructions for packaging and shipping samples to the NCSLPH for rabies testing are available as an on-line course at http://slph.ncpublichealth.com under Virology/Serology – Rabies Virus "Rabies Packaging and Shipping Power Point Presentation". Step by step instructions, along with photos, are used to instruct the user in properly and safely packaging the sample, filling out the submission form, and labeling the outside of the box. The presentation can be advanced at the user's pace, and ends with an opportunity to take an on-line quiz to receive credit. At the conclusion of the course, the participants will be able to:

- Identify items needed to properly package specimens for rabies testing for the NCSLPH.
- Correctly package and ship specimens for rabies testing for the NCSLPH.
- Recognize the importance of proper shipping
- Ship specimens for weekend and holiday testing.
- Identify the major reasons specimens are resulted as "unsatisfactory" or "test not performed".

This course is designed for animal control officers and others with responsibilities of packaging and shipping suspect rabies specimens to the NCSLPH.

At the end of the course, participants will be allowed to gauge their level of learning by completing an online quiz. Upon successful completion, the participant will receive a CE certificate for 1.0 contact hours.

Fax application to 919-715-9243

All Online tutorials can be found at slph.ncpublichealth.com.

NEW

Online Tutorials Coming Soon

Packaging & Shipping

Stat Male Smears

Coming...

October 2012

8th Annual Clinical Lab Day

Stay tuned...

Fall 2012

Phlebotomy workshop

More info to come...

State of North Carolina
Department of Health and Human Services
Division of Public Health • State Laboratory of Public Health
www.ncdhhs.gov

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North Carolina
State Laboratory of Public Health
Laboratory Improvement
P.O. Box 28047
Raleigh, NC 27611-8047