Personnel for Non-waived Testing

The Clinical Laboratory Improvement Amendments of 1988 (CLIA) specify the required laboratory personnel positions and the qualifications to hold each position. Both the CLIA personnel requirements, and the identical COLA requirements, are based on the level of testing performed (moderate or high complexity).

The following table lists the required laboratory positions for non-waived testing.

<table>
<thead>
<tr>
<th>Moderate Complexity</th>
<th>High Complexity</th>
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<tbody>
<tr>
<td>Laboratory Director</td>
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<tr>
<td>Clinical Consultant</td>
<td>Clinical Consultant</td>
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<tr>
<td>Technical Consultant</td>
<td>Technical Supervisor</td>
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<tr>
<td>Testing Personnel</td>
<td>General Supervisor</td>
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<tr>
<td>Testing Personnel</td>
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</table>

Each position has CLIA defined requirements that must be met before a person can qualify to hold the position. CLIA also defines specific responsibilities for each position. One person may hold more than one CLIA defined position, as long as he/she meets the qualifications for, and can fulfill the responsibilities of, each position held.

The first step in determining the CLIA personnel requirements that apply to your laboratory is to determine the complexity of the testing that your laboratory performs. You probably already know the level of testing, but if you are not sure, this is usually provided by the test system manufacturer, and will be listed in the test kit package insert, or the instrument operator’s manual.

The Food and Drug Administration (FDA) also provides a searchable database that can be accessed here:

http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfCLIA/search.cfm

This database, which is updated monthly, lists the commercially marketed test systems that the FDA has currently classified. Test systems are considered high complexity until they are evaluated and categorized by the FDA.

If your laboratory performs even one high complexity test, you must meet all of the CLIA personnel requirements (qualifications and responsibilities) for high complexity testing.

The complete CLIA personnel requirements (Subpart M) can be found at:

www.cdc.gov/clia/regs/subpart_m.aspx
CLIA defines required personnel positions for Moderate Complexity and High Complexity laboratories:
Laboratory Director, Clinical Consultant, Technical Consultant and Testing Personnel are required for Moderate Complexity.
Laboratory Director, Clinical Consultant, Technical Supervisor, General Supervisor and Testing Personnel are required for High Complexity.

Provider-Performed Microscopy (PPM)

CLIA defines a subset of moderate complexity testing with very specific requirements: Provider Performed Microscopy (PPM) procedures. PPM procedures are tests that use a microscope and are performed by the provider during the examination of a patient. These tests are considered Provider Performed Microscopy procedures only when they are performed by a qualified provider in a laboratory holding a Certificate for PPM Procedures.

If testing personnel other than a qualified provider perform these tests, the laboratory must meet the CLIA requirements for moderate complexity testing, including filling all CLIA-defined personnel positions and holding a Certificate of Compliance (COC) or a Certificate of Accreditation (COA), rather than a Certificate for PPM Procedures.

Qualified providers include:
- Physicians (MD, DO, or DPM)
- Dentists
- Nurse Practitioners
- Physician Assistants
- Nurse Midwives

Personnel Responsibilities Checklist

There are defined responsibilities for each position in the laboratory. Use this checklist to ensure that all personnel are meeting their responsibilities.

**Position: Laboratory Director of a Moderate or High Complexity Laboratory**

The Laboratory Director is responsible for the overall operation and administration of the lab, and must ensure the competency of all laboratory personnel. Specific Lab Director responsibilities include:
- Verify that all delegated duties are properly performed.
- Must be accessible to the laboratory to provide onsite, telephone, or electronic consultation as needed.
- May direct no more than five labs.
- Ensure that the physical plant and environmental conditions are appropriate for the testing performed and provide a safe environment, free of physical, chemical, and biological hazards.
- Ensure testing systems provide quality laboratory services across the path of workflow (for all phases of testing: pre-analytic, analytic, and post-analytic phases).
- Ensure test methods selected have the capability of providing quality results.
- Ensure verification procedures are adequate to determine accuracy, precision, and other pertinent performance characteristics of the method.
- Ensure that test result reports include pertinent information required for interpretation.
Ensure that consultation is available to the laboratory’s clients on matters relating to the quality of the test results reported and their interpretation concerning specific patient conditions.

Ensure that an approved procedure manual is available to all personnel.

Ensure that laboratory personnel are performing the test methods as required to obtain accurate and reliable results.

Employ a sufficient number of laboratory personnel with appropriate education, experience and/or training to provide appropriate consultation, properly supervise, and accurately perform tests and report test results.

Ensure that all personnel have the appropriate education and experience prior to testing patient specimens; receive appropriate training for the type and complexity of services offered; and have demonstrated that they can perform all testing operations reliably to provide and report accurate results.

Ensure that policies and procedures are established for monitoring individuals who conduct pre-analytical, analytical, and post-analytical phases of testing to verify that they maintain competency:

- To process specimens,
- Perform test procedures,
- Report test results promptly and proficiently, and
- Whenever necessary, identify remedial training and/or continuing education needs to improve skills.

Have a written list of responsibilities of each individual in the laboratory that specifies:

- the level of activity each is authorized to perform,
- whether supervision is required for specimen processing, test performance or results reporting, and
- whether consultant or director review is required prior to reporting patient test results.

Ensure that a general supervisor provides on-site supervision of certain testing personnel who perform high complexity testing.

Ensure that the laboratory is enrolled in an approved proficiency testing (PT) program.

Ensure that PT samples are tested in the same manner as patient samples.

Ensure that PT samples are tested in compliance with regulations that prohibit referral of specimens and sharing of or communication about results.

Ensure that PT results are returned on time to the PT program.

Ensure that PT results are reviewed by the appropriate staff, and the corrective action plan is followed when PT results are found to be unsatisfactory.

Ensure that quality control and quality assessment programs are established and maintained to identify failures in quality as they occur.

Ensure the establishment and maintenance of acceptable levels of analytical performance for each test system.

Ensure that corrective actions are taken and documented, whenever significant deviations from the laboratory’s established performance characteristics are identified, and patient test results are reported only when the system is functioning properly.
Position: Clinical Consultant for a Moderate or High Complexity Laboratory

The Clinical Consultant renders opinions concerning patient diagnosis and treatment, management of patient care, and:

☐ Is available to provide consultation to the laboratory’s clients.

☐ Is available to assist the laboratory’s clients in ensuring that the ordered tests are appropriate to meet the clinical expectations.

☐ Is available for consultation and communication with the laboratory’s clients on matters related to the quality of reported test results and their interpretation concerning specific patient conditions.

☐ Ensures that reports of test results include pertinent information required for specific patient interpretation.

Positions: Technical Consultant of a Moderate Complexity Laboratory and Technical Supervisor of a High Complexity Laboratory

The Technical Consultant or Technical Supervisor is responsible for technical and scientific oversight. This person is not required to be on-site at all times, but must be available to provide needed consultation either on-site, by telephone, or electronically.

In addition, the Technical Consultant / Technical Supervisor:

☐ Selects test methodology appropriate for the clinical use of the test menu.

☐ Verifies procedures for testing performed and establishes the laboratory’s performance criteria, including accuracy and precision of each test and test system.

☐ Enrolls the laboratory in an approved PT program commensurate with services offered.

☐ Establishes a quality control program appropriate for the testing performed, establishes the acceptable levels of analytic performance, and ensures these levels are maintained throughout the testing process.

☐ Resolves technical problems and ensures corrective actions are taken whenever test systems deviate from the laboratory’s established performance specifications.

☐ Ensures patient test results are not reported until all corrective action has been taken and the test system is functioning properly.

☐ Identifies training needs and ensures testing personnel receive regular in-service training.

☐ Evaluates the competency of all testing personnel on an ongoing basis.

☐ Evaluates and documents Testing Personnel’s performance at six months and twelve months during the first year of employment and yearly thereafter. Performance is reevaluated (prior to reporting patient test results) if test methodology or instrumentation changes. The evaluation must include the use of the new test methodology or instrumentation.
Position: General Supervisor of a High Complexity Laboratory

The General Supervisor:

☐ Is accessible to testing personnel at all times testing is performed to provide on-site, telephone, or electronic support.

☐ Provides day to day supervision of personnel performing high complexity testing.

☐ Must be on-site to provide direct supervision when high complexity testing is performed by certain individuals.

☐ Monitors test analyses and specimen examination to ensure that acceptable levels of analytic performance are maintained.

☐ Fulfills certain responsibilities as delegated by the Lab Director and/or Technical Supervisor. These may include:

☐ Resolving technical problems and ensuring corrective actions are taken whenever test systems deviate from the laboratory’s established performance specifications.

☐ Ensuring patient test results are not reported until all corrective actions have been taken and the test system is functioning properly.

☐ Providing orientation to all testing personnel.

☐ Evaluating and documenting the performance of all testing personnel as required.

Position: Testing Personnel in a Moderate or High Complexity Laboratory

Testing Personnel are responsible for specimen processing, test performance, and reporting test results. They should only perform those tests that are authorized by the Laboratory Director and that are within the individual’s skill level as determined by education, training or experience, and technical abilities. Testing Personnel are also responsible for:

☐ Following the laboratory’s procedures for specimen handling and processing, test analyses, reporting, and maintaining records of patient results.

☐ Maintaining records which demonstrate that proficiency testing samples are tested in the same manner as patient specimens.

☐ Adhering to the laboratory’s Quality Control policies and documenting all Quality Control activities, instrument and procedural calibrations, and instrument maintenance.

☐ Following the laboratory’s policies, including taking and documenting corrective actions, whenever test systems are not within the laboratory’s established acceptable levels of performance.

☐ Being able to identify problems that may adversely affect test performance or test result reporting and correcting the problem or notifying the appropriate supervisor.

☐ Documenting all corrective actions taken when test systems deviate from the laboratory’s established performance specifications.

☐ If required by route of qualification, performing high complexity testing only under the on-site direct supervision of a General Supervisor.

Additional Resources: COLA LabUniversity® online course Personnel Requirements; available at www.COLA.org. Relevant COLA Accreditation Criteria: PER 1-6
# PERSONNEL REQUIREMENTS

## NOTE: All individuals must have all required state licenses for all positions held — pertains to the state where the lab is located

<table>
<thead>
<tr>
<th>MODERATE COMPLEXITY LABORATORIES</th>
<th>HIGH COMPLEXITY LABORATORIES</th>
<th>CLINICAL CONSULTANT</th>
<th>TESTING PERSONNEL</th>
<th>GENERAL SUPERVISOR</th>
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<tr>
<td><strong>DIRECTOR</strong></td>
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<tr>
<td>1. Licensed MD/DO/DPM, AND certified in anatomic or clinical pathology, <strong>OR</strong> lab training or experience consisting of 1 year directing or supervising non-waived tests, <strong>OR</strong> beginning 09/01/1993, have earned at least 20 CME credits in laboratory practice addressing director responsibilities, <strong>OR</strong> training equivalent to 20 CME credits obtained during medical residency.</td>
<td>1. Licensed MD/DO/DPM AND certified in anatomic or clinical pathology <strong>OR</strong> 1 year lab training or experience in non-waived specialty/subspecialty of service.</td>
<td>1. Licensed MD/DO/DPM.</td>
<td>1. Licensed MD/DO/DPM, <strong>AND</strong> have a Doctoral, Master’s, or Bachelor’s degree in laboratory science <strong>AND</strong> 1 year laboratory training or experience in high complexity testing.</td>
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<td>2. Doctoral degree in laboratory science <strong>AND</strong> certified by an HHS-approved board, <strong>OR</strong> have 1 year experience directing or supervising non-waived testing.</td>
<td>2. Doctoral, Master’s or Bachelor’s degree in laboratory science <strong>AND</strong> 1 year lab training or experience in non-waived specialty/subspecialty of service.</td>
<td>2. Doctoral, Master’s, or Bachelor’s, or Associate’s degree in laboratory science</td>
<td>2. Doctoral, Master’s degree in laboratory science <strong>AND</strong> 1 year laboratory training or experience in high complexity testing.</td>
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<td>3. Master’s degree in lab science <strong>AND</strong> 1 year lab training or experience <strong>AND</strong> 1 year of experience supervising non-waived testing.</td>
<td>3. Bachelor’s degree in laboratory science <strong>AND</strong> 2 years lab training or experience in non-waived specialty/subspecialty of service</td>
<td>3. Bachelor’s degree in laboratory science <strong>AND</strong> at least 2 years laboratory training or experience in high complexity testing <strong>AND</strong> at least 2 years laboratory training or experience in high complexity testing.</td>
<td>3. High School graduate or equivalent <strong>AND</strong> completed military Medical Lab Specialist (50 week) course.</td>
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<tr>
<td>4. Bachelor’s degree in lab science <strong>AND</strong> 2 years lab training or experience <strong>AND</strong> 2 years experience supervising non-waived testing.</td>
<td>NOTE: “Training or experience” in specialties and subspecialties can be acquired concurrently.</td>
<td>4. High School graduate or equivalent <strong>AND</strong> documentation of training at the present facility for testing performed.</td>
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<td>5. Prior to 02/28/1992, qualified as Director under state law or Medicare lab regulations.</td>
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<tr>
<th>TECHNICAL SUPERVISOR</th>
<th>TESTING PERSONNEL</th>
<th>GENERAL SUPERVISOR</th>
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<tr>
<td>Specific qualifications are required for each specialty or subspecialty.</td>
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<td><strong>For Microbiology subspecialties – bacteriology, mycobacteriology, mycology, virology, and parasitology:</strong></td>
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<tr>
<td>1. Licensed MD/DO/DPM or PhD AND certified in clinical pathology <strong>OR</strong> 1 year lab training or experience in high complexity microbiology with a minimum of 6 months in subspecialty of service.</td>
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<tr>
<td>2. Master’s degree in laboratory science <strong>AND</strong> 2 years lab training or experience in high complexity microbiology with a minimum of 6 months in subspecialty of service.</td>
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<tr>
<td>3. Bachelor’s degree in laboratory science <strong>AND</strong> 4 years lab training or experience in high complexity microbiology with a minimum of 6 months in subspecialty of service.</td>
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<td><strong>For Immunology, Chemistry, Hematology, or Radiobiology:</strong></td>
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<tr>
<td>1. Licensed MD/DO/DPM or PhD AND certified in clinical pathology <strong>OR</strong> 1 year lab training or experience in the high complexity testing specialties performed</td>
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<tr>
<td>2. Master’s degree in lab science <strong>AND</strong> 2 years lab training or experience in the high complexity testing specialties performed</td>
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<tr>
<td>3. Bachelor’s degree in lab science <strong>AND</strong> 4 years lab training or experience in the high complexity testing specialties performed.</td>
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<td><strong>For Immunohematology:</strong></td>
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<tr>
<td>Licensed MD/DO/DPM AND certified in clinical pathology <strong>OR</strong> 1 year lab training or experience in immunohematology testing.</td>
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<tr>
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<th>TESTING PERSONNEL</th>
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<tr>
<td>1. Licensed MD/DO/DPM.</td>
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<tr>
<td>2. Doctoral degree in lab science <strong>AND</strong> board certified in specialty/subspecialty of service.</td>
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**For Blood Gases:** If not qualified above:

1. BA/BS in respiratory therapy, or cardiovascular technology **AND** 1 year training or experience.
2. AA/AS related to pulmonary function **AND** 2 years training or experience.

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