

Lexington Medical Center School of Medical Laboratory Science Goals and Competencies

Lexington Medical Center's School of Medical Laboratory Science has the following program **goals**:

1. To provide any student accepted in the program with the theoretical background, learning experiences and practical laboratory skills required to work in any specialty of the clinical laboratory.
2. To acquaint students with the relationship between the laboratory test results and associated diseases.
3. To provide sufficient background material and a sound foundation in the scientific principles for performing and interpreting clinical laboratory procedures and evaluating laboratory data thereby creating a stimulus for curiosity and intellectual growth.
4. To provide the resources and opportunities necessary for students to become proficient in the performance of clinical laboratory procedures.
5. To prepare students for national certification.
6. To instill in students professional integrity and pride and to maintain the standards of the profession of medical technology.
7. To communicate the importance of our laboratory profession as technologists and as a part of a medical team whose sole interest is the patient.
8. To provide students with the communication skills and attitudes to work in harmony with nursing and medical staff.
9. To provide an environment conducive to professional growth and development.
10. To graduate medical laboratory technologists with a strong clinical pathology background as well as management, educational, and supervisory background for a future capable of leadership in related settings.

Program Competency Statements for Medical Laboratory Scientists

As graduates from the Lexington Medical Center School of Medical Laboratory Science, with minimal supervision, our students are expected to:

1. Organize the workload to achieve efficiency and productivity.
2. Perform blood collection procedures efficiently.
3. Perform basic and complex analyses of body fluids, cells, and other specimens with proficiency, accuracy, precision, and according to standard operating procedure.
4. Apply knowledge of scientific and technical principles, instrumentation, procedures, and physiological conditions in the correlation of test results with health and disease processes.
5. Correlate laboratory findings with other laboratory data to assess test results and procedures and to identify the need for future testing.

6. Interpret unusual results, solve problems, and make decisions regarding possible discrepancies.
7. Detect problems and errors when collecting and processing specimens and performing analyses and use a systematic approach in problem solving and decision making to correct them.
8. Assume responsibility for reporting test results accurately and in a timely manner.
9. Develop and evaluate procedures, equipment, instruments, and people using knowledge of scientific concepts, technical skills, and personnel relations.
10. Contribute data to quality control and quality assurance programs, evaluate results, and take appropriate action to maintain accuracy and precision and solve problems; participate in implementation of quality control and quality assurance programs.
11. Participate in decisions regarding quality control, quality assurance, instrument selection, safety, reagent purchases, and selection of new methods and procedures.
12. Analyze new clinical laboratory methodologies/tests/instruments in order to select the best method/test/instruments. Correlate old method to new method and conduct adequate crossover studies. Evaluate their usefulness and practicality within the context of a given laboratory's personnel, equipment, space, and budgetary resources.
13. Apply appropriate safety regulations and look for ways to improve and make the environment conditions safer.
14. Establish and perform preventive and corrective maintenance of equipment and instruments as well as identifying appropriate sources for repairs.
15. Use effective oral and written communications skills with laboratory personnel and people outside the laboratory; keep accurate and legible records; prepare management documents; use computer skills in communications and data management to enable effective, timely, accurate and cost-effective reporting of laboratory generated information.
16. Apply basic knowledge, skills, and relevant experiences in management and supervision, including financial, operation, marketing, and human resource management of the clinical laboratory to enable cost effective, high quality services.
17. Assume responsibility for one's own actions and decisions; supervise others effectively; guide subordinates in problem solving and decision-making.
18. Provide clinical instruction to others in basic theory and technical skills and/or plan, implement, and evaluate formal and informal programs of instruction using principles of educational methodology.
19. Participate in continuing education activities for the advancement of one's own knowledge of the field and maintenance of professional competence.
20. Demonstrate professional conduct and interpersonal skills with patients, laboratory personnel, other health care professionals, and the public in the following ways;
 - a. Convey a professional appearance when performing the duties of a medical technologist.
 - b. Be punctual.

- c. Display initiative and effectively use free time by undertaking additional tasks.
- d. Interact appropriately and effectively with patients, visitors, physicians, supervisors, co-workers, and other hospital personnel.
- e. Maintain confidentiality and integrity in handling laboratory test results and other patient information.
- f. Work under pressure without loss of composure, efficiency or accuracy.
- g. Maintain a neat and orderly work area; maintain neat, accurate, and legible records.

21. Successfully pass ASCP certification exam for a medical laboratory scientist (MLS).