

Marshall University
2009-2010 Undergraduate Assessment Report
Medical Laboratory Technician (MLT)

I. Program's Mission

The mission of the Clinical Laboratory Sciences Department is to provide competent laboratory professionals who are qualified to staff healthcare facilities and thus furnish the highest quality of patient care to our local and regional servicing area. The primary area serviced with our graduates is the Huntington tri-state area and other underserved areas of West Virginia, Ohio and Kentucky. These clinical laboratory professionals, utilizing state of the art equipment, provide the highest quality laboratory test results that provide 70-80% of the objective data needed for physicians to make accurate patient diagnoses. The Clinical Laboratory Sciences Department provides continuing clinical medical education for the region as required by professional organizations and healthcare facilities. In addition, it is an ongoing mission of the department to implement innovative programs to meet the dynamic needs of the medical community.

Part of the mission of Marshall University is to educate health personnel for the state of West Virginia and the Tri-State region. The MLT program is providing health care providers. As previously mentioned, most MLT graduates practice in the Tri-State region. Since the majority of the graduates received the clinical component of their education at local area hospitals, often these hospital vacancies are filled by Marshall University MLT graduates.

Program Goals:

Instructional Goals

1. Prepare graduates with attitudes, knowledge, and skills that prepare them for career entry into the clinical laboratory workforce as a Medical Laboratory Technicians (MLT)/Clinical Laboratory Technicians (CLT).
2. Prepare graduates to continue learning advanced technical knowledge about human health and disease.
3. Prepare graduates with knowledge and experience necessary for national certification as a MLT/CLT.

Curriculum and Accreditation Goals

1. The MLT Program will maintain accreditation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).
2. Faculty in the MLT program will continuously develop their general and professional knowledge and teaching skills through formal continuing education and personal study.
3. Faculty of the MLT program will continuously improve the MLT program curriculum to meet the changing needs of students, accreditation agencies, and prospective employer.
4. Faculty of the MLT program will provide opportunities for clinical faculty to develop teaching and evaluation skills in the clinical practicum setting.

Student Learning Goals

1. Require each student to have achieved at least minimum levels of proficient performance and knowledge in college level mathematics, human biology, and principles of chemistry before admission to the MLT program.

II. Program's Student Learning Outcomes

Refer to the attached chart

III. Assessment Activities

Refer to the attached chart

A. Learning Outcomes/Assessment Activities:

Student Outcome	Person or Office Responsible	Assessment Tool or Approach	Standards/Benchmark	Results/ Analysis	Action Taken
<p><i>1. Pre-clinical Outcome:</i> The student will demonstrate knowledge, skills and competencies that prepare them for entry into clinical practicum</p>	<p>CLS Faculty</p>	<p>Review of individual course grades in CLS , 110 (230),200, 210, and 220 courses for Fall 2009 and Spring 2010</p>	<p>Students must achieve a minimum of 70% in all CLS courses in order to be eligible for clinical rotations</p>	<p>Of the 11 newly admitted students, 6 students successfully completed CLS courses with a minimum of 70% in preparation for the clinical rotations. 3 students were placed on probation from the program due to receiving below a 70% in CLS 110 (230) during Fall 2009; 2 withdrew for medical reasons.</p>	<p>The three students who were placed on academic probation from the program chose not to return to the program. One of the two who left for medical reasons did return and is currently completing course requirements in preparation for Summer 2011 clinical rotations.</p>
<p><i>2. Clinical Practicum Outcome:</i> The student will demonstrate knowledge, skills and competencies to prepare them for entry into the workforce as a Medical Laboratory Technician.</p>	<p>Clinical Faculty at hospital sites</p>	<p>Practical Exams in each Clinical Section (CLS 270, 271, 272, 273) Fall 2008 and Summer 2009</p>	<p>Minimum of 70% on all practical exams in sections</p>	<p>7 students were enrolled in clinical rotations during this time; 2 during Fall 2009 and 5 during Summer 2010; all students achieved above 70% on all practical exams.</p>	
	<p>Clinical Faculty at hospital sites MLT Clinical Coordinator</p>	<p>Blackboard final examination for each clinical rotation course</p>	<p>Students have a maximum of three attempts to achieve a minimum score of 70% on each Blackboard final examination at the end of each clinical rotation</p>	<p>7 of 7 students achieved a minimum score of 70% on each Blackboard final examination.</p>	<p>Content of MLT Blackboard exam material is continually reviewed and updated to more accurately reflect student learning outcomes</p>

Student Outcome	Person or Office Responsible	Assessment Tool or Approach	Standards/Benchmark	Results/Analysis	Action Taken
<i>Clinical Practicum Outcome, cont.</i>	Clinical Faculty at hospital sites	Assessment of Student Attitudes and Professional Socialization	Students must achieve a minimum of 70% on this assessment for each clinical rotation – assesses clinical characteristics such as student adaptability, application of knowledge, completion of assignments, cooperation, communication skills, etc. daily during each rotation.	7 of 7 students achieved above 70% on this assessment.	No action necessary
	American Society of Clinical Pathology Board of Registry (BOR)	National Medical Laboratory Technician BOR Examination	100% passage of exam on first attempt	From the July 1, 2009 to June 30, 2010 time frame—7 students took the exam and 6 passed. Our pass rate for this period was 85.7% and the National average for this period was 64.71 %.	Students encouraged to take MLT national registry examination as soon as possible after completion of program, however some students choose not to do so; in many areas students can work in the laboratory with the AAS in MLT and not have to have taken the registry examination.

IV. Overview of changes implemented in your program this past year based on results and planned action specified in last year's report:

The MLT faculty re-evaluated the Blackboard examinations for each clinical practicum section to ensure that they were more reflective of knowledge gained during CLS lecture courses and clinical rotations. Based on student feedback, laboratory automation components were added to the CLS 200 course in order to better prepare students for their clinical rotation.

V. Specify any changes/modifications made to your program based specifically on data obtained during Assessment Day Activities:

Based on MLT student feedback, laboratory automation components were added to the CLS 200 course in order to better prepare students for their clinical rotation experiences. Students felt that they were not exposed enough to laboratory automation before they entered the hospital laboratories that are highly automated.

VI. Assistance Needed:

The help of the Office of Assessment is requested to aid in designing a valid assessment survey or interview process that is appropriate for graduating MLT students.