

**Marshall University**  
**2008-2009 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 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:**

<b>Student Outcome</b>	<b>Person or Office Responsible</b>	<b>Assessment Tool or Approach</b>	<b>Standards/Benchmark</b>	<b>Results/ Analysis</b>	<b>Action Taken</b>
<p><i>1. Pre-clinical Outcome:</i> The student will demonstrate knowledge, skills and competencies that prepare them for entry into clinical practicum</p>	CLS Faculty	Review of individual course grades in CLS 110, 200, 210 and 220 courses for Fall 2008 and Spring 2009	Students must achieve a minimum of 70% in all CLS courses in order to be eligible for clinical rotations	Of the 15 newly admitted students, 12 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 both CLS 210 and CLS 220 in Spring 2009.	The three students were placed in an independent study course during Fall 2009 to review the previous year's course material in order to prepare them for continuation in the Medical Laboratory Technology Program for Spring 2010.
<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>	Clinical Faculty at hospital sites	Practical Exams in each Clinical Section (CLS 270, 271, 272, 273) Fall 2008 and Summer 2009	Minimum of 70% on all practical exams in sections	11 students were enrolled in clinical rotations during this time; 1 during Fall 2008 and 10 during Summer 2009; all students achieved above 70% on all practical exams.	
	<p>Clinical Faculty at hospital sites</p> <p>MLT Clinical Coordinator</p>	Blackboard final examination for each clinical rotation course	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	11 of 11 students achieved a minimum score of 70% on each Blackboard final examination.	Content of MLT Blackboard exam material is continually reviewed and updated to more accurately reflect student learning outcomes

<b>Student Outcome</b>	<b>Person or Office Responsible</b>	<b>Assessment Tool or Approach</b>	<b>Standards/Benchmark</b>	<b>Results/Analysis</b>	<b>Action Taken</b>
<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.	11 of 11 students achieved above 70% on this assessment.	Revised assessment tool implemented during Summer 2009.
	American Society of Clinical Pathology Board of Registry (BOR)	National Medical Laboratory Technician BOR Examination	100% passage of exam on first attempt	From 2008 Annual Report – 5 students took the exam and all five passed. National average for this cycle was 78% And our pass rate was 100%	Students encouraged to take MLT national registry examination as soon as possible after completion of program

**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. Surveys for MLT students are still being formulated to better assess the quality of their experiences.

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

At the MLT level, there were no specific changes made as a result of assessment day activities. As mentioned above, an MLT survey is currently being developed.

**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.