



**Program:** Medical Laboratory Technology      **Assessment**      **2020-2021**  
**period:**

---

**Program or Department Mission:**

The mission of the Medical Laboratory Technology Program at Jefferson State Community College is to promote and maintain standards of quality for the services and the environment necessary for students to achieve their educational goals and to enhance the social, cognitive, and professional skills required for entry level employment as medical laboratory technicians (MLTs) in the healthcare community.

This program mission is consistent with the college "Statement of Philosophy and Purpose" published in the *Jefferson State Community College Catalog and Student Handbook*.

**Instructional Program Student Learning Outcomes & Assessment Plan**

**SLO Outcomes assessed**

- 1. The student will demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards necessary to protect themselves and the patients they serve.**
- 2. The student will Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public.**
- 3. The student will perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis.**
- 4. The student will relate laboratory findings to common disease processes.**
- 5. The student will recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence**

Intended Outcomes	Means of Assessment	Criteria for Success	Summary & Analysis of Assessment Evidence	Use of Results
<p>SLO 1</p> <p>The student will demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards necessary to protect themselves and the patients they serve.</p>	<p>Incidence reports</p>	<p>The MLT students will safely complete the laboratory component of the curriculum with &lt;2 reportable cases.</p>	<p>No incidence reports were filed this school year.</p>	<p>Benchmark met. Continue teaching safety measures with no curriculum changes</p>
<p>SLO 2</p> <p>The student will demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public.</p>	<p>Clinical Evaluation of student</p> <p><a href="#">MLT CQI Report</a></p>	<p>70% of clinical students will score "2" or better on a 3-point Likert scale on the Performance evaluation for each clinical rotation evaluation</p>	<p>F20- N= 13; 13/13 or 100 %</p> <p>Sp21-N=9; 9/9 or 100%</p> <p>SU21- N = 6; 6/6 or 100%</p> <p>Cohort N=28; 28/28 or 100%</p> <p>of clinical students scored "2" or better on a 3-point Likert scale on the Performance evaluation for each clinical rotation evaluation</p>	<p>Benchmark met continue to monitor all clinical surveys and evaluations for program improvements, but no changes will be made in the upcoming cycle for this SLO.</p>
<p>SLO 3</p>	<p>Final Laboratory performance</p>	<p>70% of students will score an 75%</p>	<p>86% of students scored <math>\geq 75\%</math> on the laboratory component of all MLT</p>	<p>Benchmark Met</p>

<p>The student will perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis.</p>	<p>evaluations for selected courses</p>	<p>on the laboratory component of selected course-work</p>	<p>coursework, MLT 111,121,131,141,142,151, 181 and 191</p> <p>N=158, 136/158 or 86% total average laboratory evaluation for the 2020-2021 assessment period for MLT coursework containing laboratory experiences</p>	<p>Slight decrease from 2019-20 assessment of 92%. The 191-blood bank course scored the lowest with 16/19. This poor performance resulted in course failure and students are out of progression and will retake this course spring 2022. We have made a textbook change for this course in hopes of an easier read and comprehension.</p> <p><a href="#">MLT 191 Textbook change</a></p>
<p>SLO 4</p> <p>The student will relate laboratory findings to common disease processes.</p>	<p>Clinical evaluation of student</p> <p><a href="#">MLT CQI Report</a></p>	<p>85% of clinical students will score “3” or better on 80% of objectives on the Task Performances on the average Clinical Task evaluations for each clinical rotation: Hematology, Blood Bank,</p>	<p>F20-N=13; 13/13 or 100%</p> <p>Sp21-N=9; 9/9 or 100%</p> <p>Su21 N=6; 5/6 or 83%</p> <p>Cohort N=28; 27/28 or 96%</p> <p>Scored “3” or better on a 3- point Likert scale on the average Clinical Task evaluations for each clinical rotation: Hematology, Blood Bank,</p>	<p>Benchmark met. LabCE testing in both 4<sup>th</sup> and clinical semester has indicated with this cohort an increase in making correlations between testing and disease processes.</p> <p>LabCE testing has moved from an</p>

		Chemistry and Microbiology	Chemistry and Microbiology	<p>online format to proctored in the Learning Success Center to encourage more initial study preparation.</p> <p><a href="#">MLT293 New Testing Schedule</a></p>
<p>SLO 5</p> <p>The student will recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence</p>	# of graduates taking ASCP BOC	70% of graduates will take the ASCP BOC.	<p>Fall 20 and Spring 21 cohort N=22</p> <p>12/22=54%</p> <p>has taken the ASCP Board of Certification exam.</p>	<p>This benchmark is not met.</p> <p>We will continue to include the links to sign up on the test as part of their clinical assignments and even though we cannot require them to take this exam, many students will sign up for it prior to graduation. This statistic has increased slightly since last assessment period. The fall class had 11/13 taking the exam but the spring class has not tested yet with only 1/9 taking the exam.</p> <p><a href="#">ASCP Test Assignment</a></p>

**Plan submission date: 9/1/2021**

**Submitted by: Candy Hill**

SLO 2

## MLT Program CQI 2020-21

[Return to SLO 1](#)  
[Return to SLO 2](#)  
[Return to SLO 3](#)  
[Return to SLO 4](#)  
[Return to SLO 5](#)

Assessment/Evaluation Measure	Documentation of Review Findings (Persons/Groups Involved)	Review Dates	Review Findings	Action Taken	Action follow-up (Responsible Persons)	Action Review Dates	Continuous Improvement Summary
ASCP Certification Examination Pass Rate	Program Coordinator, MLT Faculty, Advisory Committee	NAACLS Annual Survey November	Benchmark < 75% on 2020 survey. Will require NAACLS Action Plan	NAACLS 2021 Action Plan submitted in June	Program Coordinator, MLT Faculty	Review 2021 NAACLS Survey. Now to include AMT	Increased course pass rate to 75%. Addition of more LabCe

				2021 and Approved		certification results	testing in MLT-161 and 293. Assess in 2021-22 JSCC assessment plan
ASCP Certification Examination Content Area Performance	Program Coordinator, MLT Faculty, Advisory Committee	Annual End of Calendar Year 2020	<p>ASCP BOC testing cycle 2020</p> <p>Annual report N=15</p> <p>BOC content scores ≥400</p> <p>Program Mean Score for <b>urinalysis and Body Fluids</b> = 455. National average 527</p> <p><b>Hematology content</b> score for Program = 434. National Score = 522</p> <p><b>Microbiology content</b> score 492 with a national average of 516</p> <p><b>Chemistry content score</b> for program is 465 with a national average of 517</p> <p><b>Immunology content</b> score 442 for program total. The national average score is 529</p> <p><b>Blood Bank content</b> 455</p>	Continue to monitor for BOC sun content score increases in this area. 7/15 or 47% of cohort scored >400 on individual scores. Some increases from the previous year can be seen in students sub-scores. Low score can be attributed	Program Coordinator, MLT Faculty	Annual end of year 2020	<p>No significant changes in content curriculum.</p> <p>Changes made is course pass from 73 to 75%. Increased utilization of LabCe 6 months prior to graduation in the MLT-161 and 293 courses.</p> <p>Budgeted for ASCP practice test to be provided for students</p>

SLO 3

## MLT-111 Textbook Change

[Return to SLO 1](#)  
[Return to SLO 2](#)  
[Return to SLO 3](#)  
[Return to SLO 4](#)  
[Return to SLO 5](#)

The screenshot shows a web browser window displaying the F.A. Davis website. The page is for the textbook 'Urinalysis and Body Fluids', 7th Edition, by Susan King Strasinger and Marjorie Schaub Di Lorenzo. The book is available in print for \$78.95 US and as an eBook on VitalSource for \$59.50 US. The page includes a search bar, navigation menus for Nursing, Health Professions, and Services & Support, and a 'You have access to this product!' notification. The Windows taskbar at the bottom shows the date as 1/23/2023 and the time as 2:05 AM.

[Return to SLO 1](#)  
[Return to SLO 2](#)  
[Return to SLO 3](#)  
[Return to SLO 4](#)  
[Return to SLO 5](#)

SLO 4

<a href="#">Clinical-Site-Evaluations-of-Students</a>	Program-Coordinator, MLT-Faculty, Advisory-Committee	Ongoing-end-of-each-fall-and-spring-semester	<b>Hematology</b> <b>Eval-Form-B</b> Fall-2020-N=13;13/13-or 100%-Scored-"2"-or-better-on-80%-of-objectives Spring-2021-N=9;9/9-or 100%-Scored-"3"-or-better-on-80%-of-objectives <b>Evaluation-Form-C</b> Several-Comments-with-this-group-concerning-Immature-WBC-ID <b>Microbiology</b> Fall-2020-N=13;13/13-or-100%-Scored-"3"-or-better-on-80%-of-objectives Spring-2021-N=9;9/9-or-100% Scored-"3"-or-better-on-80%-of-objectives	<b>Hematology</b> Discussed-with-New-Hematology-Lab-instructor-to-include-more- <b>abnormal-differential</b> <b>Micro</b> Instructor-suggested-a-molecular-platform-to-include-in-the-microbiology-course. <b>Blood-Bank</b> Instructor-to-implement-new-text-book-and-	Program-Coordinator, MLT-Faculty	Evaluate-for-improvement-in-2021-22- <b>CQ</b>	<b>Hematology-Form-C</b> -Second-occurrence-around-abnormal-hematology-Additional-abnormal-hematology-modules-will-added-to-MLT-121-Fall-2021-and-MLT-161- <b>Micro</b> Solana-is-in-the-2022-23-budget-for-purchase-and-implementation. <b>Blood-Bank</b> New-text-book-with-more-streamline-labs-and-more-dry-
			SU-2021-N=2;1/2-or-50% Scored-"3"-or-better-on-80%-of-objectives <b>Evaluation-Form-C</b> Molecular- Instrumentation <b>Blood-Bank</b> Fall-2020-N=13;13/13-	stream-lined-labs-Will-include- <b>more-dry-panels-<b>Chemistry</b></b> New-chemistry-analyzer-in-			panels-requested



## New-293-Testing-Policy

All Review Exams will be ON-campus in the library immediately following the Friday on-campus class meeting

[Return to SLO 1](#)  
[Return to SLO 2](#)  
[Return to SLO 3](#)  
[Return to SLO 4](#)  
[Return to SLO 5](#)

Week	Date	Class Discussion and LabCE	Assignments
1	01/07	Course orientation via Collaborate Mock exam on Blackboard	
2	01/10	FIRST 50-question test in LabCE from subject area Laboratory Operations <b>due at noon</b>	Review Laboratory Operations, Instrumentation, and Laboratory Safety chapters in CLS Review book and prepare presentation <b>for 01/28</b>
	01/14	No class meeting	
3	01/17	SECOND 50-question test in LabCE from subject area Laboratory Operations <b>due at noon</b>	Work Ethic Assignment (Blackboard) <b>Due 01/24 at noon</b>
	01/21	NO class meeting	
4	01/24	FIRST 50-question test in LabCE from subject areas Chemistry AND Immunology <b>due at noon</b>	Review Chemistry and Immunology & Serology chapters in CLS Review book and prepare presentation <b>for 02/04</b>
	01/28	Laboratory Operations, Instrumentation, and Laboratory Safety: student presentations, review, and <b>exam due at noon</b>	
5	01/31	SECOND 50-question test in LabCE from subject areas Chemistry AND Immunology <b>due at noon</b>	
	02/04	Chemistry and Immunology & Serology: student presentations.	

SLO 5

..

## [ASCP-BOC-assignment¶](#)

[Return to SLO 1](#)  
[Return to SLO 2](#)  
[Return to SLO 3](#)  
[Return to SLO 4](#)  
[Return to SLO 5](#)

When you get ready to submit your application for the certification exam you will need to select:¶

1. Route 1¶
2. Program code is 001015¶
3. Find your start date and graduation date¶

A weblink to ASCP with instructions is provided in this folder.¶

¶