



Assessment Record

Program: Medical Laboratory Technology

Assessment period: 2021-2022

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 fewer than 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</p>	<p>Clinical Evaluation of student</p>	<p>70% of clinical students will score "2" or better on a 3-point Likert scale on the Performance</p>	<p>F21- N= 10; 10/10 or 100 % Sp22-N=3; 3/3 or 100%</p>	<p>Benchmark met continue to monitor all clinical surveys and evaluations for program improvements. No professional issues were reported for clinical students during this cycle. We have included a work ethic assignment and post-test in the clinical seminar class.</p> <p>Work Ethic Post test</p>

<p>skills with patients, laboratory personnel, other health care professionals, and with the public.</p>		<p>evaluation for each clinical rotation evaluation</p>	<p>SU22- N = 4; 4/ 4 or 100%</p> <p>Cohort N=; 17/17 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>SLO 3</p> <p>The student will perform analytical tests including quality control on biological specimens, including collecting and processing biological specimens for analysis.</p>	<p>Final Laboratory performance evaluations Rubrics for MLT 111, 121, 141,151 181 and</p>	<p>80% of students in the assessment cohort will score 70% or higher on the final laboratory performance evaluations in MLT 111, 121, 141, 142, 151, 181 and 191</p>	<p>N=7; 6/7 or 86% scored > 70% on the final Lab Practical in MLT 111</p> <p>22/26 or 85% scored > 70% on the final Lab Practical in MLT 121</p> <p>15/17 or 88% scored > 70% on</p>	<p>Benchmark Met</p> <p>Slight increase from 2020-21 assessment of 86%. The 191-blood bank course scored the lowest with 15/20. This was the result of several weak students having difficulty with the skill level of this course. Laboratory performance is the most important characteristic for this profession.</p> <p>Example Rubric</p>

			<p>the final Lab Practical in MLT 141</p> <p>10/11 or 91% scored >70% on the final lab practical in MLT 151</p> <p>31/31 or 100% scored >70% on the final lab practical in MLT 181</p> <p>15/20 or 75% scored >70% on the final lab practical in MLT 191</p> <p>Total Cohort N=128, 115/128 or 90% total cohort average >70% on the final laboratory practical.</p>	
<p>SLO 4</p> <p>The student will relate laboratory</p>	<p>LabCE Subject Area Testing</p>	<p>80% of students in the combined cohort will score >70% average on</p>	<p>F21-N=10; 8/10 or 80%</p>	<p>Benchmark not met, however LabCE testing in both 4th and 5th semesters have indicated a correlation with success in passing the certification exams. We will continue to collect data to find reflective benchmarks. This class is still in the testing cycle but to date 11/13</p>

findings to common disease processes.		LabCE subject area tests	Sp22-N=3; 1/3 or 33% Cohort N=13; 9/13 or 69% of this cohort scored >70% average on LabCE testing	have taken the ASCP exam and passed, 1 has left the field for another profession and will remain as “not tested” the only student that has not passed is scheduled for a re-test within the next three months.
<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 or AMT certification exams	<p>70% of graduates will take the ASCP BOC or AMT certification exams.</p> <p>This objective is not related to ASCP, or AMT certification pass rates. Historically this profession does not require certification to work so we encourage students to sit for this exam as a professional competence</p>	<p>Fall 21 and Spring 22 cohort N=13</p> <p>12/13=92%</p> <p>has taken the ASCP Board of Certification exam.</p>	<p>We are now meeting this benchmark.</p> <p>We have seen success from the decision 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. We have also had support from our employers to track new hires and follow up with hiring requirement that they take a certification exam within 1 year of hire.</p>
Plan submission date: 9/26/2022			Submitted by: Candy Hill	

SLO 2

WORK ETHICS

Essential Traits



Attendance

Understand the importance of punctuality and attendance. Arrive to work on time and request time off with advance notice. Use sick days for extreme illness.



Character

Maintain honest behaviors in all situations. Be trustworthy, dependable, and reliable in meeting all job responsibilities. Be willing to initiate projects and follow them through to completion. Demonstrate self-discipline and self-responsibility.



Respect

Deal appropriately with cultural/racial diversity. Do not engage in harassment of any kind. Treat all colleagues with respect.

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SLO 2

Preview Test: [Work Ethics Post-Test](#)

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Test Information

Description: [] []

Instructions: Take Post-Test after reading the Ethics document. []

Multiple Attempts: Not allowed. This test can only be taken once. []

Force Completion: This test can be saved and resumed later. []

Your answers are saved automatically. []

Question Completion Status: []

QUESTION 1

1. → A supervisor shows you a printout of a reporting error that you made and asks you if it was just a typographical error or did you need to be shown the correct way to enter that particular type of results. You should:

- Explain to the supervisor why the error was made and discuss ways to prevent it from happening again.
- Get angry at the supervisor.

SLO 3

Part I. Complete the last 10 LabCE urine case simulators 21-30 (20 points)

GRADING RUBRIC:

Each case study is worth 2 point

of incorrect reporting options missed are as follows:

1-4 missed = 2.0 point

5-7 missed = 1.0 points

More than 7 = 0 points Total possible 20 points

Part II. Identify the following sediment constituents from the PowerPoint provided in Cass and answer the corresponding question. (20 points)

Part III. Perform a complete urinalysis on two patients. Follow all required reporting criteria and confirmatory test if necessary and be sure to document. Decant spun urine back into the original cup. Remember if the urine dipstick is negative, microscopic is not indicated report MNI. Also, if criteria requires a microscopic but you do not see anything document as negative microscopic. Be sure to evaluate chemical testing and you should find appropriate structures to correlate with you results in the microscopic. Save all of your tubes in rack 1 will grade correct tubes used and discard. (20 points)

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SLO 4

LABCE Subject area testing

	LabCE Review grades						Average Combined Review Grades
Fall-2021-grads	lab-ops	Hem	Micro	Blood/Bank	Chem/Imm	UA/BF	
Student-1	88	86	70	74	86	84	81
Student-2	88	76	76	78	78	86	80
Student-3	82	54	84	68	86	74	75
Student-4	84	74	78	75	90	74	79
Student-5	88	90	98	96	100	90	94
Student-6	72	100	98	66	86	56	80
Student-7	74	66	70	78	84	82	76
Student-8	76	56	52	66	80	54	64
Student-9	72	68	56	56	98	72	70
Student-10	62	46	42	50	72	56	55
Spring-2022-grads							
Student-1	72	48	46	44	50	64	54
Student-2	76	62	58	70	52	68	64
Student-3	76	68	80	70	68	84	74

N=13; 9/13 or 59% of this cohort scored >70% average on LabCE testing