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| jscc logo | **Assessment Record** |

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| **Program:** | **Medical Laboratory Technology** | **Assessment period:** | **2016-2017** |

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| |  | | --- | | **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*. |

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| **Instructional Program Outcomes & Assessment Plan**  **Program Outcomes Assessed**  **1**. **Students admitted to the MLT program will complete the program as technically competent individuals**  **2. Graduates will take the ASCP BOC exam.**  **3. Within first year of graduation, 70% of graduates seeking employment in the laboratory field will be employed or are continuing education**  **4. Employers and graduates returning surveys will report 85% satisfaction with educational preparation.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students admitted to the MLT program will complete the program as technically competent individuals ready to enter the laboratory workforce. | Graduation/Attrition rate | Based on the NAACLS standard, 70% of students who have entered their third semester will complete graduation requirements. | 2016-2017 graduation cohort N=21 we started the program with 38 students, 12 students dropped after 1st or 2nd semester, 6 students are out of progression and 3 students dropped during the third semester. Based on NAACLS Standard 18/21 or 14% attrition for this cohort. | NAAACLS guidelines use a three - year running average  2014-2015 21/21 0%  attrition  2015-2016 14/15 7% attrition  2016-2017 18/21 14%  Three - year average of 93% graduation rate with 7% attrition. NAACLS benchmark of 70% of students entering third semester complete graduation requirements met.  Moving forward our MLT/Phlebotomy Short Certificate will capture students we lose first and second semester. This will be part of graduate assessment starting 2017-2018. |
| Graduates will take ASCP BOC exam. | Certification exam scores | MLT graduates will take the ASCP certification test with a pass rate at or above the NAACLS benchmark of 75% three year rolling average taken within one year of graduation | MLT students in this cohort have taken the ASCP Board of Certification exam. 2016-2017 N=21  9/15 pass rate 60% | MLT graduates have taken the ASCP BOC within one year of graduation. The three-year pass-rate  2014-2015 12/15 N=15 80%  2015-2016 7/9 N=9 78%  2016-2017 9/15 N=15 60%  The three-year average 72%  The 2016-17 cohort is still in the testing cycle and re-testing so some improvement may be indicated by the end of fall 2017 semester. The NAACLS benchmark was not met and a NAACLS Action Report will be required by June 2018. |
| Within first year of graduation, 70% of graduates seeking employment in the laboratory field will be employed or are continuing education | Graduate Surveys/  Career Technical Surveys  Program Coordinator follow up | NAACLS benchmark states 70% will find employment within first year three year rolling average taken within one year of graduation | 2016-2017 MLT cohort N=21  17/21 = 81% of students seeking employment within their first year upon graduation have found a job or are continuing their education. | Benchmark met.  The three - year average for employment is 86%  2014-2015 N=19/20 =95%  2015-2016 N= 12/15 = 80%  2016-2017 N=17/21 = 81%  Historically the placement rate is well above benchmark for students desiring to work in the Birmingham and surrounding areas. The spring 2017 cohort are still interviewing for positions. |
| Employers and graduates returning surveys will report 85% satisfaction with educational preparation. | Employer surveys  CTE/Graduate surveys | 85% of graduates evaluated through employer surveys will receive an evaluation with a score of “Good” or higher on all survey questions using a 4-point scale. 85% of graduates will report a score of “Satisfied” or higher on all survey questions using a 4-point scale | 90% of graduates evaluated through employer surveys received an evaluation with a score of “Good” or higher on all survey questions using a 4-point scale. N=16 surveys sent 10/16 = 63% employers returned surveys.  N=21/25 or 84% of graduates reported a score of “Satisfied” or higher on all survey questions using a 4-point scale. 25/30 or 83% returning graduate surveys. | Benchmark Met  Continue to survey both graduates and employers for MLT content issues in the future.  The program will address comments made in the surveys and make curriculum changes as needed. |
| **Plan submission date: 10/4/2017** | | | **Submitted by: Candy Hill** | |

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| **Instructional Program Student Learning Outcomes & Assessment Plan**  **SLO Outcomes assessed**  **1. Demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards**  **necessary to protect themselves and the patients they serve.**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care**  **professionals, and with the public.**  **3. Perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis.**  **4. Relate laboratory findings to common disease processes.**  **5. 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** |
| Demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards necessary to protect themselves and the patients they serve. | Incidence reports | The MLT students will safely complete the laboratory component of the curriculum with <2 reportable cases. | No incidence reports were filed this school year. | Benchmark met. Continue teaching safety measures with no curriculum changes |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation of student | 70% of clinical students will score “3” or better on a 5-point Likert scale on the Performance evaluation for each clinical rotation evaluation | Fa16 N=6  Sp17 N=13  SU17 N=2  F16 5/6 or 83%  Sp17 12/13 or 92%  SU17 2/2 or 100%  of clinical students scored “3” or better on a 5-point Likert scale on the Performance evaluation for each clinical rotation evaluation | Benchmark met continue to monitor all clinical surveys and evaluations for program improvements |
| Perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis. | Final Laboratory performance evaluations for selected courses | 70% of students will score an 75% on the laboratory component of selected course-work | 85% of students scored >75% on the laboratory component of all MLT coursework, MLT 111,121,131,141,142,151,181 and 191  N=213 181/213 or 85% total laboratory evaluation for the 2016-2017 assessment period for MLT coursework containing laboratory experiences | Benchmark Met  Continue to evaluate and develop meaningful laboratory experiences. Grades for all MLT courses are split 60/40 lecture verses lab grades. We hope this system will identify clinically incompetent students for remediation before sending out to clinical rotations |
| Relate laboratory findings to common disease processes. | Clinical evaluation of student | 70% of clinical students will score “3” or better on a 5-point Likert scale on the Clinical Task evaluation for each clinical rotation: Hematology, Blood Bank, Chemistry and Microbiology | Fa16 N=6  Sp17 N=13  SU17 N=2  F16 6/6 or 100%  Sp17 13/13 or 100%  SU 17 2/2 or 100%  Scored “3” or better on a 5- point Likert scale on the Clinical Task evaluation for each clinical rotation: Hematology, Blood Bank, Chemistry and Microbiology | Benchmark met. Continue to evaluate effectiveness of the subscription of LabCE in both clinical evaluations and BOC pass rates. |
| Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence | # of graduates taking ASCP BOC | 70% of graduates will take the ASCP BOC. | Fall 16 and Spring 17 cohort N=21  15/21=71%  has taken the ASCP Board of Certification exam. | This benchmark is met.  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 effort has resulted in an increase from 62% in 2015-16 to 71% this assessment period. |
| **Plan submission date: 10/3/2017** | | | **Submitted by: Candy Hill** | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Course Student Learning Outcomes & Assessment Plan**  **MLT 100S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge in HIPAA training regarding confidentiality and protected health information.**  **2. Acquiring Phlebotomy certification for MLT students.** | | | | | | **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** | | Demonstrate knowledge in HIPAA training regarding confidentiality and protected health information. | HIPAA exam | 100% of students will complete the HIPAA post-test with a score of 80% or better. This is the expectations from our clinical affiliates | 100% of student taking the HIPAA exam score an 80% or better on the post-test. FA 2016 N= 14, 13/13=100%  SP2017 N= 11 10/11=91%  SU 2017 N= 7 7/7 = 100% | Benchmark met. Continue to monitor critical laboratory component required by clinical affiliates. | | Acquiring Phlebotomy certification for MLT students. | National HealthCareer Association (NHA) Certified Phlebotomy Technician (CPT) exam | 70% of students wishing to obtain Phlebotomy certification will take and successfully pass the NHA CPT certification exam. | Fa16 N=3, 3/3 = 100%  SP17 N=6, 6/6 = 100%  SU17 N=4, 4/4 = 100%  of students successfully passing the Phlebotomy Certification exam | Benchmark met. Most MLT students do not wish to spend the money to take the phlebotomy certification exam unless they desire employment while completing the MLT program. The AAS in MLT also allows graduates the ability to perform phlebotomy. | |  |  |  |  |  | | **Plan submission date: 9/19/2017** | | | **Submitted by: Candy Hill** | | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Course Student Learning Outcomes & Assessment Plan**  **MLT 111S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in urines and body fluids**  **2. Analyze urine samples**  **3. Relate laboratory results with various diseases and disorders** | | | | | | **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** | | Demonstrate Knowledge of laboratory testing principles and theory in Urine and Body Fluids | ASCP BOC exam | BOC exam average sub-scores in Urines and Body fluids are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  Urinalysis sub-content scores >400  Body Fluids > 400 | Minimum benchmark met.  Continue to monitor for BOC sun-content score increases in this area.  Mean Score in 2015 for Urinalysis = 434  Body Fluid = 417  Mean Score 2016 for Urinalysis = 500  Body Fluids = 600 | | Analyze urine samples | Laboratory evaluations | 75% of students complete the laboratory component of the course with a score of > 75% | Fall 2016 N=26. 22/26 85% of students scored >75% on the laboratory component of the course | Benchmark was met  3 of the 4 students not meeting this benchmark did not successfully complete this course. Last year we did not meet this benchmark and lab experiences were streamlined to more closely align with SLO’s. | | Relate laboratory results to various diseases and disorders | MTS Medtraining assessments | 75% of students will complete the urinalysis and body fluid Medtraining assessment with an average score > 70% | Fall 2016 N=26  25/26  96% of cohort completed this training tutorial with a score >70% | Benchmark met.  Medtraining online training modules continue to be a valuable tool to the online format with successful results. | | **Plan submission date: 9/19/2017** | | | **Submitted by: Candy Hill** | | |  |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 121S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in hematology**  **2. Identify normal and abnormal morphology for cellular elements**  **3. Relate laboratory results with various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Demonstrate Knowledge of laboratory testing principles and theory in Hematology | ASCP BOC exam | BOC exam average sub-scores in hematology are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report **N=13**  WBC/RBC Sub-content score 364  Morphology/Differentials  Sub-content score 381 | Benchmark not met.  The program has purchased for evaluations LabCE WBC, RBC, differential and morphology simulators to be used in the MLT161 and 121 classes Fall 17 |
| Identify normal and abnormal morphology for cellular elements | Laboratory evaluations | 75% of students complete the laboratory component of the course with a score of > 75% | **Fall 16 N= 13**  13/13 or 100% scored >75% on the laboratory component of the course  **Spring 17 N= 12**  7/12 or 58% scored >75% on the laboratory component of the course | This benchmark was met if both cohorts were combined. 20/25 or 80%  The spring cohort is a weaker class academically and attrition has been higher in this class than in the past. The remaining students in this group will have the opportunity to work with the LabCe Hematology simulators when they take MLT 161 |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the hematology Medtraining competency assessment with an average score > 70% | **Fall 16 N=13**  11/13 85%  **Spring 17 N=12**  9/12 75% completed this competency tutorial with a score >70% | This benchmark was met.  We will continue using this competency assessment in the course. It is a good review source. |
| **Plan submission date: 9/18/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 131S**  **Course Outcomes Assessed**  **1. Students will safely use basic laboratory equipment**  **2. Students will perform selected laboratory activities** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will safely use basic laboratory equipment | MTS Medtraining Safety Training assessment exam | 75% of students will complete the safety Medtraining training assessment with an average score > 70% | 100% of all cohorts scored >75% on the Medtraining safety assessments.  Fall 2016 semester N=13, 13/13/or 100%  Spring 2017 N= 11, 11/11 or 100%  Summer 2017 N=10, 10/10 or 100% | Benchmark met  Continue to use and monitor Medtraining tutorial results. |
| Students will perform selected laboratory activities | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | 91% of all cohorts had a laboratory performance of >75%  Fall 2016 cohort N=13, 13/13 100%  Spring 2017 N=11, 8/11 or 73%  Summer 2017 N=10, 10/10 or 100%  scored > 80% on laboratory performance. | Benchmark met  Continue to develop and improve laboratory evaluations and Student learning objectives |
| **Plan submission date: 9/20/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 141S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in microbiology**  **2. Perform Laboratory analysis of microbiology specimens**  **3. Demonstrate Knowledge of laboratory testing principles and interpretation in Microbiology** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Demonstrate Knowledge of laboratory testing principles and **theory** in Microbiology | ASCP BOC exam | BOC exam average sub-scores in Microbiology are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  GNB >400  GPC >400  General Micro >400 | Benchmark was met. We scored >400 in all 3 sub-content areas on the BOC. The software purchased and streamline of laboratory experiences has demonstrated an increase in the sub-score for micro during this testing cycle. We will continue to monitor for success. |
| Perform laboratory analysis of microbiology specimens | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | Spring semester 2017 N=26  17/27 or 65%  of students scored > 75% on the laboratory performance | This benchmark was not met. Content in this course is extremely difficult and often must be repeated by out of progression students. We have split the lab section into two days for MLT142S and will be able to assess that change in the 2017-18 assessment. If success in SLO for MLT 142 are demonstrated we will use this technique in the MLT 141 course |
| Demonstrate Knowledge of laboratory testing principles and **interpretation** in Microbiology | Laboratory practical exams | 75% of students will have an average grade on laboratory practical exams of >70% | Spring Semester 2017 N=26 18/26 or 69% of students scored > 75% on the final laboratory practical exam. | Benchmark was not met.  We will continue to modify laboratory procedures and testing required to perform basic microbe identification that will enable student knowledge for laboratory practical exams. |
| **Plan submission date: 9/22/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 142S**  **Course Outcomes Assessed**  **1. Describe how disease-causing fungi, parasites, and virology are identified**  **2. Perform laboratory analysis of microbiology specimens**  **3. Relate laboratory results with various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how disease-causing fungi, parasites, and virology are identified | ASCP BOC exam | BOC exam average sub-scores in Microbiology are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  Anaerobes >400  Fungi, mycology, parasite  < 400 | Benchmark was not met  Our budget saw some increased funding that allowed us to purchase parasitic suspensions for student laboratory analysis. |
| Perform laboratory analysis of microbiology specimens | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | Laboratory performance from Summer semester 2017  N=23  17/23 74% scored > 75% on the laboratory component of the course. | Even though the benchmark fell slightly below the 75% mark we had enormous improvement in laboratory scores from the 57% scoring >75% last assessment year. The labs 4-hour section was split and taught on two consecutive days 2 hours per section verses one 4 hour section. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the microbiology Medtraining competency assessment with an average score > 70% | 65% of students scored > 70% on the microbiology Medtraining competency exam.  Summer semester 2017  N=23  15/23 =65% | Benchmark not met  Continue to utilize the medtraining tutorial site in the curriculum. Instructor will stress importance of reviewing the training tutorial prior to taking the competency exam |
| Plan submission date: 9/21/2017 | | | Submitted by: Candy Hill | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 151S**  **Course Outcomes Assessed**  **1. Successful Performance on selected chemistry tests questions**  **2. Perform selected chemistry tests**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how chemistry tests are used and result interpretation | ASCP BOC exam | BOC exam average sub-scores in Chemistry are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  Carbohydrates, acid, base and electrolytes <400  Protein >400  Enzymes and lipids >400  Special Chemistry >400 | Benchmark was not met. We scored >400 in 3 of the 4 sub-content areas on the BOC. We scored >400 in our deficient area from 2015-16 assessment but Scored <400 in Carbohydrates this assessment period. We will continue to utilize the practice quizzes. This information will be shared with the new Chemistry instructor so that she may incorporate additional information for this content. We will also address this content in the laboratory experiences. |
| Perform selected chemistry tests | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | N= 27 26/27 or 96% scored >75% on laboratory performance | This benchmark was met and continued improvement seen from last assessment. This is the second Chemistry lab taught by new L-19 employee. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Chemistry Competency assessments | 75% of students will complete the Chemistry Medtraining competency assessment with an average score > 70% | Fall 2016 N= 14, 7/14 or 50%  Summer 2017 N= 13, 10/13 or 77%  Completed the medtraining competency exam with a 70% or better | Benchmark not met.  Continue to utilize Medtraining competency and training module scores for competency assessment  The Fall 2016 cohort is the same group testing low on the ASCP BOC. We are unable to determine the reason for poor performance in this cohort. |
| **Plan submission date: 9/25/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 161S**  **Course Outcomes Assessed**   1. **Students will demonstrate competency on module exams.** 2. **Students will demonstrate technical ability on Task Sheets for all clinical areas reviewed.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will demonstrate competency on module exams | Competency exams | 75% of the students will score > 75% on departmental competency exams | Fall 2016 N= 15, 12/15 or 80%  Su 2017 N=13, 11/13 or 85% of the students scored > 75% on departmental competency exams. | Benchmark met.  Continue to develop examinations for theory that will assess competency of the students before clinical practicum. |
| Students will demonstrate technical ability on Task Sheets for all clinical areas reviewed | Lab Task Performance Sheets | 75% of the students will score > 75% on Laboratory Performance evaluations | Fall 2016 N= 15, 12/15 or 80%  Su 2017 N=13, 13/13 or 100% of the students scored > 75% on laboratory performance evaluations | Benchmark met.  Continue to develop laboratory experiences that will assess competency of the students before clinical practicum. |
| **Plan submission date: 9/25/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 181S**  **Course Outcomes Assessed**  **1. Describe how immunology tests are used and result interpretation**  **2. Perform selected immunology tests**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how immunology tests are used and result interpretation | ASCP BOC exam | BOC exam average sub-scores in Immunology are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  All sub-content areas in Immunology > 400 | Benchmark Met  No deficiencies were noted in the BOC sub-score analysis. Continue to monitor and make changes as needed. |
| Perform selected immunology tests | Laboratory evaluations | 75% of students will have an average grade on the laboratory component of the course of > 75% | Summer 2017  N=22 21/22=95%  of students scored an average grade on laboratory performance > 75%. | Benchmark met  Continue to look for ways to improve the laboratory component of the course. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the Hepatitis/ HIV medtraining competency assessment with an average score > 70% | Summer 2017  N=22 18/22 =82% scored >70% on the Hepatitis/HIV medtraining competency assessment | Benchmark met  Continue to use the online tutorial to increase student knowledge. Instructor to stress the use of book and internet before taking this assessment |
| **Plan submission date: 9/25/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 191S**  **Course Outcomes Assessed**  **1. Comprehend foundational knowledge of immunohematology**  **2. Analyze blood bank samples**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Comprehend foundational knowledge of immunohematology | ASCP BOC exam | BOC exam average sub-scores in Immunology are > the minimum passing score of 400 | ASCP BOC testing cycle 2016  Annual report N=13  ABO/Rh <400  AB Screen/ID >400  Xmatch/Specimens >400 | Benchmark not met  1 of the three deficiencies were <400 on the BOC sub-score analysis. We have added more ABO/Rh case studies and utilized tutorials on Blackboard to address this deficiency |
| Analyze blood bank samples | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | 93% of students from both cohorts scored an average grade on laboratory performance > 75%.  Fall 2016 N=16 14/16 or 88%  Sp 2017 N=13 13/13 or 100% | Benchmark met  Continue to look for ways to improve the laboratory component of the course. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the Transfusion Service Medtraining competency assessments with an average score > 70% | 76% of students in both cohorts completed the Transfusion Service Medtraining competency assessments with an average score > 70%  Fa 2016 N=16, 10/16 or 63%  Sp 2017 N=13, 11/13 or 85% | Benchmark Met  Continue to use the online tutorial to increase student knowledge. |
| **Plan submission date: 9/25/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 293S**  **Course Outcomes Assessed**  **1. Students will successfully score > 75% on all departmental practice exams.**  **2. Demonstrate professionalism in all personal interactions** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will successfully score > 75% on all departmental practice exams. | Online practice exams | 75% of students will successfully score > 75% on all departmental practice exams. | 86% of students in both cohorts successfully scored > 75% on all departmental practice exams.  Fa 2016 N=15 11/15 or 73%  Su 2017 13/13 N=13 or 100% | Benchmark met however,  evaluation of other assessments for the fall 2016 cohort has identified a weakness in overall performance for this they did not perform well on the 2016-17 BOC exam. The SU cohort will be evaluated in the 2017-18 assessment period. |
| Demonstrate professionalism in all personal interactions | Case studies | 75% of students will successfully score > 75% on professionalism case studies. | 100% of students successfully scored > 75% on professionalism case studies.  Fa 2016 N= 15 15/15 or 100%  Su 2017 13/13 100% N= 13 | Benchmark met.  This cohort will be assessed for professional conduct evaluation during clinical rotations |
| **Plan submission date: 9/25/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 294S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Hematology and Urinalysis**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Hematology and Urinalysis | Clinical Evaluations | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Task Evaluation for MLT 294 | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students continue to perform exceptional during clinical rotations. We will address any problems as they arise. |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Professional evaluation form A for the Hematology clinical rotation | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 7/15/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 295S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Microbiology**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Microbiology | Clinical Evaluations | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Task Evaluation for MLT 295 | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students continue to perform exceptional during clinical rotations. We will address any problems as they arise. |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Performance evaluation for the Microbiology clinical rotation | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  8/9 or 89% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 7/15/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 296S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Blood Bank**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Immunohematology (Blood Bank) | Clinical Evaluations | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Task Evaluation for MLT 296 | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students continue to perform exceptional during clinical rotations. We will address any problems as they arise. |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Performance evaluation for the Immunohematology clinical rotation | Fall 2016 N=6  83% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 7/15/2017** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 297S**  **1. Perform Specific clinical lab activities in Chemistry**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Chemistry | Clinical Evaluations | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Task Evaluation for MLT 297 | Fall 2016 N=6  100% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students continue to perform exceptional during clinical rotations. We will address any problems as they arise. |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation | 85% of clinical students will score “3” or better on a 5- point Likert scale on the Performance evaluation for the Chemistry clinical rotation | Fall 2016 N=6  86% >3 on scale  Spring 2017 N=13  100% >3 on scale  SU 2017 N=2  100%>3 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 7/15/2017** | | | **Submitted by: Candy Hill** | |