

CENTRAL NEW MEXICO COMMUNITY COLLEGE
ASSESSMENT REPORT
Due to SAAC by October 15

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:			
2012-2013 Cohort in 2013-2014	Monica Lewis	mllewis@cnm.edu	224-4000 ext 50202
Academic Year	Contact Person	Email	Phone Number

Subject of this Assessment Report:		
Program: Medical Laboratory Technician <input type="checkbox"/> Certificate <input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS	Gen Ed Area: _____ Applicable to: <input type="checkbox"/> AA/AS <input type="checkbox"/> AAS	Discipline Area: _____

PART 2: EVIDENCE OF ACHIEVEMENT OF PROGRAM OUTCOMES

Summary of Program Success in Achieving Desired Outcomes:
Entrance to the MLT program is always in demand. Retention is high. National exam pass rates are high and employment is high. The MLT Program was granted 5-years continuing accreditation via NAACLS this year.

Description and Evaluation of Recent Changes Made in Support of Student Learning:
Beginning with 2014-2015 cohort: entrance requirements changed, program term-by-term changed and program specific prerequisites changed. Many new variables are in play and new SAAC plan/cycle will need to be implemented.

PART 3: REPORT ON RECENT ASSESSMENT OF STUDENT LEARNING PROCESSES

Learning Outcome(s)/Exit Competencies Assessed: <i>To add rows: right –click in cell below and select “Insert,” “Insert Rows Above”</i>	Classes/Cohorts Assessed:
Knowledge: Correlate laboratory tests with human physiology and disease states in Urinalysis, Hematology, Microbiology, Phlebotomy, Lab Operations	2012-2013 cohort: MLT 1012, MLT 1510, MLT 2010, MLT 1270, various, ASCP exam
Skills: Perform and interpret laboratory tests including: specimen collection and processing, instrument operation and troubleshooting, result reporting and record documentation, quality control monitoring, computer applications, corrective action, and safety protocols in Urinalysis, Hematology, Microbiology and Phlebotomy.	2013-2013 cohort: MLT 1090, MLT 1092, MLT 1692, MLT 2790, MLT 1270, MLT 1390, various
Behavior: Describe and demonstrate appropriate laboratory etiquette, professionalism, communication and human relation skills.	2012-2013 Cohort: MLT 1007 & MLT 2790

Measurement Tool(s) Used: <i>To add rows: right –click in cell below and select “Insert,” “Insert Rows Above”</i>	<i>Enter X's for type of tool</i>				Initial Achievement Target or Expectation:
	Internal	External	Direct	Indirect	
Achievement of knowledge objectives as measured by final comprehensive exam (early) and ASCP exam (late). Internal/direct and External/direct	x	x	x		Course objectives measured by comprehensive final exam (internal/direct/early) Mean students answering correctly (or mean score) <71% = unacceptable, immediate action plan Mean students answering correctly (or mean score) >71% = adequate, action plan as time permits ASCP Exam (external/direct/late) CNM mean score <400 = unacceptable, immediate action plan CNM mean score >400 = adequate, action plan as time permits Measure achievement of knowledge by pre & post tests (MLT 1270 only) Significant improvement from pre to post (to <71%) = unacceptable, immediate action plan Significant improvement from pre to post (to at least >71%) = adequate, action plan as time permits
Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external	x	x	x	x	Skills measured by practical laboratory exams (internal/direct/early) Mean score <71% = unacceptable, immediate action plan Mean score >71% = adequate, action plan as time permits Clinical Performance (external/direct/late) Mean score <71% = unacceptable, immediate action plan

					Mean score >71% = adequate, action plan as time permits
Achievement of objectives in MLT 1007 (early) and demonstrated behavior measured by preceptor evaluation (late). Internal/direct and External/indirect.	x	x	x	x	<p>Successful completion of MLT 1007 Clinical success course (internal/direct/early)</p> <p>Mean score <71% = unacceptable, immediate action plan</p> <p>Mean score >71% = adequate, action plan as time permits</p> <p>Clinical Performance (external/direct/late)</p> <p>Mean score <71% = unacceptable, immediate action plan</p> <p>Mean score >71% = adequate, action plan as time permits</p>

Assessment Results/Findings:					
<p>Knowledge:</p> <p>MLT 1012:</p> <p> internal/direct/early: Students passed final exam with mean of 92% (>71%)</p> <p> external/direct/late: Students passed ASCP exam with mean of 473 (>400)</p> <p>MLT 1510</p> <p> internal/direct/early: Students passed final exam with mean of 91% (>71%)</p> <p> external/direct/late: Students passed ASCP exam with mean of 438 (>400)</p> <p>MLT 2010</p> <p> internal/direct/early: Students passed final exam with mean of 87% (>71%)</p> <p> external/direct/late: Students passed ASCP exam with mean of 448 (>400)</p> <p>MLT 1270</p> <p> internal/direct Measure achievement of knowledge by pre & post tests: no data</p> <p> *internal/direct/early: Students passed final grades with mean of 88% (>71%)</p> <p>Laboratory Operations:</p> <p> internal/direct/early: Students passed lab operations assessment with mean of 90% (>71%)</p> <p> external/direct/late: Students passed ASCP exam with mean of 472 (>400)</p> <p>Skill:</p> <p>MLT 1092/MLT 1090</p> <p> internal/direct/early: Students passed practical exam with mean of 97% (>71%)</p> <p> external/indirect/late: Preceptors scored student performance with mean of 100(>71%)</p> <p>MLT 1692/MLT 2790</p> <p> internal/direct/early: Students passed practical exam with mean of 100% (>71%)</p> <p> external/indirect/late: Preceptors scored student performance with mean of 99%(>71%)</p> <p>MLT 1270/MLT 1390</p> <p> internal/direct/early: Students passed practical exam with mean of 88% (>71%)</p> <p> external/indirect/late: Preceptors scored student performance with mean of 100% (>71%)</p>					

Behavior:

MLT 1007

internal/direct/early: Students passed course objectives with mean of 85% (>71%)

MLT 2790

external/indirect/late: Preceptors scored student performance with mean of 100% (>71%)

Analysis and Interpretation of Assessment Results/Findings:

1. No data was collected for MLT 1270 pre/post tests as per assessment plan. *Final grade results were used so as to include a measure in this area for current report.
2. Results indicate that students are adequately obtaining knowledge and skills in the areas that were measured. Data indicates that students are able to adequately describe and demonstrate appropriate behaviors.

Action Plan in Support of Student Learning:

1. Faculty to be trained in administration and collection of pre/post MLT 1270 tests.
2. Beginning with 2014-2015 cohort: entrance requirements changed, program term-by-term changed and program specific prerequisites changed. Many new variables are in play and new SAAC plan/cycle will need to be implemented.

Recommendations, Proposals, and/or Funding Requests:

PART 4: EMBEDDED OUTCOMES

Critical Thinking and Life Skills/Teamwork Development within Programs:

- a) Please describe how Critical Thinking assessment is embedded within your program assessment.
- b) Please describe how Life Skills/Teamwork assessment is embedded within your program assessment.

a) Critical Thinking is assessed in every facet of the MLT program as the very nature of the work done by an MLT involves critical analysis, interpretation, problem solving and logical deduction.

b) Life Skills are assessed in the MLT 1007 Clinical Success course. Teamwork is assessed in classroom laboratory group work and clinical preceptor reports.

PART 5: ASSESSMENT CYCLE PLAN (Copy and paste from original plan if unchanged)

Cycle Years:	Plan Description:
2012-2017	Assessments will be conducted on cohort that graduates during the given academic year. MLTs will be assessed by discipline. Each discipline measured every other cohort so time to identify problems and implement action plans is adequate. Students will demonstrate knowledge through performance on final written exams and ASCP Certification exams. Students will demonstrate skill through classroom practical exams and evaluations by clinical preceptors. Students will demonstrate behavior through achievement in success course and evaluations by clinical preceptors. MLT 1270 assessment data was not collected due to initial cohort sequencing. It was decided to conduct longitudinal assessment of the cohort's final MLT 1270 grades instead.

Student Learning Outcomes/Exit Competencies:	When Measured:	Where Measured:	How Measured:
1. Knowledge: Correlate laboratory tests with human physiology and disease states.	A. 2012-2013 Cohort: Urinalysis, Hematology, Microbiology B. 2013-2014 Cohort: Immunology, Coagulation, Immunochemistry, Clinical Chemistry C. 2012-2013 Cohort: Phlebotomy, Lab operations D. 2014-2015 Cohort: Urinalysis, Hematology, Microbiology E. 2015-2016 Cohort: Immunology, Coagulation, Immunochemistry, Clinical Chemistry F. 2016-2017 Cohort: Phlebotomy, Lab operations	A. MLT 1012, MLT 1510, MLT 2010, ASCP exam B. MLT 1014, MLT 1511, MLT 1592, MLT 2011, ASCP exam C. MLT 1270/various D. MLT 1012, MLT 1510, MLT 2010, ASCP exam E. MLT 1014, MLT 1511, MLT 1592, MLT 2011, ASCP exam F. MLT 1270/various	A. Achievement of knowledge objectives as measured by final comprehensive exam (early) and ASCP exam (late). Internal/direct and External/direct B. Achievement of knowledge objectives as measured by final comprehensive exam (early) and ASCP exam (late). Internal/direct and External/direct C. Measure achievement of knowledge by pre & post tests. Internal/direct/ TBD D. Achievement of knowledge objectives as measured by final comprehensive exam (early) and ASCP exam (late). Internal/direct and External/direct E. Achievement of knowledge objectives as measured by final comprehensive exam (early) and ASCP exam (late). Internal/direct and External/direct F. Measure achievement of knowledge by pre & post tests. Internal/direct/ TBD
2. Skills: Perform and interpret laboratory tests including: specimen collection and processing, instrument operation and troubleshooting, result	A. 2012-2013 Cohort: Urinalysis, Hematology,	A. MLT 1092, MLT 1692, MLT 2790	A. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late).

<p>reporting and record documentation, quality control monitoring, computer applications, corrective action, and safety protocols.</p>	<p>Microbiology</p> <p>B. 2013-2014 Cohort: Immunology, Coagulation, Immunochemistry, Clinical Chemistry</p> <p>C. 2012-2013 Cohort: Phlebotomy, Lab operations</p> <p>D. 2014-2015 Cohort: Urinalysis, Hematology, Microbiology</p> <p>E. 2015-2016 Cohort: Immunology, Coagulation, Immunochemistry, Clinical Chemistry</p> <p>F. 2016-2017 Cohort: Phlebotomy, Lab operations</p>	<p>B. MLT 1192, MLT 1592, MLT 1792, MLT 2092, , MLT 1090, MLT 2790</p> <p>C. MLT 1270/1390/various</p> <p>D. MLT 1092, MLT 1692, MLT 2590, MLT 2790</p> <p>E. MLT 1192, MLT 1592, MLT 1792, MLT 2092, MLT 2790</p> <p>F. MLT 1270/1390/various</p>	<p>Direct/internal and Indirect/external</p> <p>B. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external</p> <p>C. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external & TBD</p> <p>D. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external</p> <p>E. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external</p> <p>F. Achievement of skills objectives as measured by lab practical exams (early) and preceptor evaluations (late). Direct/internal and Indirect/external & TBD</p>
<p>3. Behavior: Describe and demonstrate appropriate laboratory etiquette, professionalism, communication and human relation skills.</p>	<p>2012-2013 & 2014-2015</p>	<p>MLT 1007 & MLT 2790</p>	<p>Achievement of objectives in MLT 1007 & MLT 1090 (early) and demonstrated behavior measured by preceptor evaluation (mid to late). Internal/direct and External/indirect.</p>