

**Northeast Mississippi Community College Radiologic Technology Program Assessment Plan  
July 1, 2022-June 30, 2023**

**Mission Statement:** The mission of the NEMCC Radiologic Technology Program is to instill the value of lifelong learning and professionalism in students, graduates, faculty and to provide the students with an education in radiologic technology that prepares them for the ARRT certification examination and employment as an entry-level Registered Radiologic Technologist.

**\*Note:** The clinical evaluation utilizes a 5-point scale and the employer survey uses a very dissatisfied, dissatisfied, neutral, satisfied and very satisfied scale.

**Goal 1:** Students will develop competency as an entry-level radiographer.

Outcome	Assessment Tool	Benchmark	Assessment Schedule	Person Resp.	Results	Actions
1.1 Students will be able to perform routine exams	1. Random lab practical 2. Total body exam at the end of the 5 <sup>th</sup> semester	1. Students will achieve an 85% or above on each random lab practical 2. Of the 40 projections the students will achieve an 85% or above on the total body exam at the end of the 5 <sup>th</sup> semester	1. End of fall semester in RGT 1513 Radiographic Procedures I and RGT 2533 Radiographic Procedures III 2. Spring (End of 5 <sup>th</sup> semester)	1. Program Faculty 2. Clinical Staff and Program Faculty	1a. 4 random lab practicals were given in RGT 1513. The following are the results of the students that achieved a 85% or above: Lab practical 1 12/12 100%), Lab practical 2: 12/12 (100%) Lab Practical 3: 12/12 (100%), Lab Practical 4: 12/12 (100%),  1b. 2 Random lab practical were given in RGT 2533. The	1a/b. The clinical coordinator would like to continue monitoring the random lab practical. It was noted that this year's first year students met the benchmark set with all 4 RLP. Students were encouraged to practice in the lab daily. The coordinator believes this encouragement for daily practice has helped to improve scores.

					following are the results of the students that achieved a 85% or better: Lab practical 1 8/8 (100%) Lab practical 2	
					8/8 (100%)  2.Students did participate in the TBE this semester, with 8/8 (100%) of students passing.	2. The Program Faculty will continue to implement and monitor the TBE. The program faculty believes that the TBE gives a great insight into how the students can handle this number of exams in an allotted amount of time. TBE gives students great critical thinking skills that they will have to implement throughout their career as a Radiologic Technologist.
1.2 Students demonstrate procedures in patient care	<p>1. Lab practical for check-off</p> <p>a. vital signs (blood pressure, pulse, respiration, temperature)</p> <p>b. transfer of patients.</p> <p>2. Final examination in RGT 1223</p> <p>3. Question 5 from the clinical evaluation</p>	<p>1. Students will demonstrate each of the following patient care skills for the instructor and achieve 90% or greater on the following lab practicals:</p> <p>a. vital signs (blood pressure, pulse, respiration, temperature)</p> <p>b. transfer of patients</p> <p>2. The students will achieve 75% or greater on the patient care final examination</p> <p>3. a. The students will receive "4" or above on question 5 at the end of the 2<sup>nd</sup> semester,</p>	<p>1. Throughout 1<sup>st</sup> semester</p> <p>2. end of 1<sup>st</sup> semester</p> <p>3. . At the conclusion of the 2<sup>nd</sup> semester. At the conclusion of the 5<sup>th</sup> semester</p>	<p>1. Program Faculty</p> <p>2. Program Faculty</p> <p>3. Program Faculty</p>	<p>1. 100% (12/12) of the students achieved a 85% or better on the following lab practicals:</p> <p>a. vital signs (blood pressure, pulse, respiration, temperature)</p> <p>b. transfer of patients</p> <p>2. 100% (12/12) students achieved a 75% or greater on the patient care final examination)</p> <p>3.a. 100% (12/12) received "4" or above on question 5 at the</p>	<p>1. The program faculty will continue to monitor results of the lab practical for vital signs.</p> <p>2. While the program faculty was pleased with the final grade and will continue to monitor the Final Examination results in RGT 1223, it is noted that percentage of passing finals did improve and Program faculty believes that the implementation of these new labs are helping students. They will continue to implement new labs to verify patient care skills and correlating information for the course. Faculty will continue to implement the following labs: medical/surgical asepsis, more communication with patients (scenarios) and patient care study skill labs to improve test scores.</p> <p>3. The program faculty are pleased with using this tool to monitor patient care with the students. The faculty will continue to use this tool.</p>

		b. The students will receive a "5" on question 5 at the end of the 5 <sup>th</sup> semester			end of the second semester b. 100 %(8/8) received "5" on question 5 at the end of the 5 <sup>th</sup> semester	
1.3 Students will demonstrate radiation protection	<p>1. Clinical Evaluation</p> <p>a. Question 4</p> <p>b. Question 4</p> <p>2. Random lab practical</p> <p>3. Total body Exam</p>	<p>1. The students will receive "3" or above on question 4 at the end of the 2<sup>nd</sup> semester The students will receive a "5" on question 4 at the end of the 5<sup>th</sup> semester</p> <p>2. 90% of the students will receive points on the item related to shielding (at the end of 1<sup>st</sup> semester)</p> <p>3. 100% of the students will receive points on the item related to shielding on the TBE (end of 5<sup>th</sup> semester)</p>	<p>1. At the conclusion of the 2<sup>nd</sup> semester</p> <p>2. At the conclusion of the 1st semester</p> <p>3. At the conclusion of the 5<sup>th</sup> semester</p>	<p>1. Clinical staff</p> <p>2. Program faculty</p> <p>3. Program faculty</p>	<p>1a. 100% (12/12) of students received a "3" or above on question 4 at the end of the 2<sup>nd</sup> semester</p> <p>b. 87.5% (7/8) students received a 5 on question 4</p> <p>2. 12/12 (100%) received points for shielding on the last random lab practical</p> <p>3. 8/8 (100%) received points for shielding on the TBE.</p>	<p>1a. The program officials are pleased with the progress of students with radiation protection skills, as the students take radiation protection very seriously. The program officials will continue to monitor the results of the radiation protection portion of the clinical evaluation. Patient protection is a very important part of the program.</p> <p>b. Goal not met for the sophomores with less than 100% seen on eval results. The faculty will continue to monitor and strive to keep the standards very high for the graduating class.</p> <p>2. The faculty noted that the students did an excellent job on shielding in the 4 random lab practical. The faculty stressed proper collimation from the beginning and all students did a great job with collimation as well. Based on newly presented information through ACR (Jan 2021) limiting shielding, recommendations made through ARRT suggest that students still implement radiation shielding best practices.</p> <p>3. Faculty was pleased in the percentage of students that implemented shielding in the TBE. Shielding is of main concern when teaching radiation safety throughout our program.</p>

**Goal 2: Students will be able to communicate effectively**

Outcome	Assessment Tool	Benchmark	Assessment Schedule	Person Resp.	Results	Actions
2.1 Students will effectively communicate with patients.	<p>1. Clinical Evaluation, Question 10</p> <p>2. Employer Survey, question # 6</p> <p>3. Random Lab Practical – item that deals with communication/ est. rapport</p>	<p>1. The students will receive “3” or above on question 10 of clinical evaluation at the end of the 2<sup>nd</sup> semester and a “5” at the end of the 5<sup>th</sup> semester</p> <p>2. The graduates will receive “Satisfied” or above on question # 6</p> <p>3. 90% of students will receive points on the item that deals with communication rapport on the Radom Lab Practical at the end of the 1<sup>st</sup> and 4<sup>th</sup> semesters</p>	<p>1. at the conclusion of the 2<sup>nd</sup> and 5<sup>th</sup> semesters</p> <p>2. Annually in the fall</p> <p>3. Conclusion of the 1<sup>st</sup> and 4<sup>th</sup> semesters</p>	<p>1. clinical staff</p> <p>2. Office of Planning and Research and Program Director</p> <p>3. Program faculty</p>	<p>1. 100% (12/12) of students received 3 or higher on question 10 at the end of the 2<sup>nd</sup> semester and 87.5% (7/8) of students received a 5 on question 10 at the end of the 5<sup>th</sup> semester</p> <p>2. 100% of respondents marked “Satisfied” or above on question # 6</p> <p>3. There were 4 RLP administered during 1<sup>st</sup> sem. 100% 12/12 (1<sup>st</sup> RLP), 12/12 (2<sup>nd</sup> RLP), 12/12 (3<sup>rd</sup> RLP) 12/12 (4<sup>th</sup> RLP) rec. points at the end of the sem. 100% of students (8/8) achieved points at the end of the 4<sup>th</sup> sem.</p>	<p>1. The program faculty will continue to monitor the results of the clinical evaluation. They are pleased that students are doing well with communication with the patients in their 2<sup>nd</sup> semester. At least one students received a 4 on communication in their 5<sup>th</sup> semester.. Faculty will continue to monitor the communication outcomes.</p> <p>2.The program faculty will discuss results with the advisory committee and continue to monitor the employer evaluation. The program faculty are also looking at more ways to get more of the employer surveys to be returned. The QR code seemed to work better this year, for employers to scan and take the survey, Faculty will continue to utilize this tool.</p> <p>3. Program faculty will continue to look at this communication item on the RLP.</p>
2.2 Student will demonstrate effective written communication	1. Employer Survey, question #7	1. The students will receive “Satisfied” or above on question 7 of the employer survey	1. Annually in the fall.	1. Office of Planning and Research	1. 100% of respondents marked “Satisfied” or above on question #1(e)	1. The faculty will continue to monitor the written communication results of the employer evaluation. The faculty are going to continue to encourage the employers to return the surveys.

	2. Patient Care Presentation in 1 <sup>st</sup> semester	2. Students will receive a score of 85% or higher in the 1 <sup>st</sup> semester on the Cycle of Infection presentation.	2. Conclusion of 1 <sup>st</sup> semester	and Program Director 2. Program Faculty	2. 100% (12/12) of students received 85% or higher on the communication presentation on Cycle of Infection.	2. The faculty noted that the implementation of the Cycle of Infection presentation was useful for written communication and faculty will continue to implement this in the upcoming semester.
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**Goal 3: Students will think critically and analytically.**

Outcome	Assessment Tool	Benchmark	Assessment Schedule	Person Resp.	Results	Actions
3.1 Students will be able to adapt to procedure protocol for non- routine procedures	1. Clinical Evaluation, Question 2 2. Random Lab Practical	1. The students will receive a “3” or above on question 2 of the clinical evaluation at the end of the 2 <sup>nd</sup> semester and a “5” at the end of the 5 <sup>th</sup> semester 2. Students will receive a 85% or better on the random lab practical at the end of the 2 <sup>nd</sup> . Students will receive a 90% or better on the lab practical at the end of 4 <sup>th</sup> semester.	1. at the conclusion of the 2 <sup>nd</sup> and 5 <sup>th</sup> semesters 2. at the conclusion of the 2 <sup>nd</sup> semester and 4 <sup>th</sup> semester	1. Clinical Staff 2. Clinical Staff and program faculty	1. 100% (12/12) received a “3” or above on question 5 at the end of the 2 <sup>nd</sup> semester 100% (6/6) received a “5” or above at the end of the 5 <sup>th</sup> 2. 100% (12/12) of students received an 85% or better in the 2 <sup>nd</sup> and 100% received a 90 or better in the 4 <sup>th</sup> 100% (8/8)	1. The faculty was pleased with results of students adapting to non-routine procedures. Faculty believes this a good way to see where strengths and personal weaknesses are in the clinical settings when dealing with trauma situations. 2. Faculty will continue to monitor this tool.
3.2 Students will correct non- quality images	1. Clinical Evaluation, Question 6 2. Lab report	1. 95% of students will receive “3” or above on question 6 of clinical evaluation at the end of	1. 2 <sup>nd</sup> and 5 <sup>th</sup> semesters	1. Clinical Staff 2. Program faculty	1. 100% (12/12) of students received a “3” or higher at the end of the 2 <sup>nd</sup> semester. At the	1. The faculty note that the benchmark was met for the 2 <sup>nd</sup> and 5 <sup>th</sup> semester

		<p>the 2<sup>nd</sup> semester and a "5" at the end of the 5<sup>th</sup> semester</p> <p>2. 100% of students will achieve a 85 or above on each image analysis lab report during the 2<sup>nd</sup> and 4<sup>th</sup> semester</p>	<p>2. 2<sup>nd</sup> and 4<sup>th</sup> semesters</p>		<p>end of the 5<sup>th</sup>, 100% (8/8) received a "5" or above</p> <p>2. 100% (12/12) of 2<sup>nd</sup> semester students achieved a 85% or above on the lab report 100% (8/8) of the 4<sup>th</sup> semester students achieved a 85 or above on the lab report.</p>	<p>students. Faculty will continue to monitor.</p> <p>2. The faculty notes that the benchmark was met for the 2<sup>nd</sup> and 4<sup>th</sup> semester through the use of image analysis assignments implemented in the student's clinical courses.</p>
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**Goal 4: The student demonstrates the values and ethics of a radiographer and an understanding of professional development and lifelong learning.**

Outcome	Assessment Tool	Benchmark	Assessment Schedule	Person Resp.	Results	Actions
<p>4.1 Students will demonstrate professional behavior.</p>	<p>1. Clinical Evaluation, Questions 7 and 8  2. Employer Survey, question #4</p>	<p>1. The students will receive a “3” or above on questions 7 and 8 of clinical evaluation at the end of the 2<sup>nd</sup> semester and a “5” on these questions at the end of the 5<sup>th</sup> semester  2. Average of returned surveys for question #4 will be “Satisfied” or above</p>	<p>1. End of 2<sup>nd</sup> and 5<sup>th</sup> semesters  2. Annually in the fall</p>	<p>1. Clinical Staff  2. Office of Planning and Research</p>	<p>1. 100% (12/12) received a “3” or better on question 7 and 8 at the end of the 2<sup>nd</sup> semester 100% (8/8) received a “5” on question 7 and 8 at the end of the 5<sup>th</sup> semester.  2. 100% of the respondents marked “Satisfied” or above on question #4)</p>	<p>1. The program faculty will continue to monitor professional behavior with the students. They are always asking for feedback from the advisory committee as well as the radiologic technologist on how to improve professionalism. The program faculty still realizes that setting a 5 as a benchmark is a very high goal. But they do believe it is necessary for students at the end of the school year. The faculty is going to continue to monitor.  2. The faculty will continue to monitor the results of the employer evaluation. The faculty are going to continue to encourage the employers to return the surveys.</p>

<p>4.2 Students will demonstrate knowledge and understanding of the key professional organizations (ARRT, JRCERT, ASRT)</p>	<p>1. Electronic presentation in RGT 1213 (Fundamentals of Radiography)</p> <p>2. Electronic Professionalism Report (RGT 1139 Clinical Education III)</p>	<p>1. 95% of the students will receive a "90" or above on the presentation</p> <p>2. 100% of the students will receive a "90" or above on Professionalism Report that includes understanding of the ARRT and ASRT Practice Standards and Code of Ethics.</p>	<p>1. Fall Semester</p> <p>2. Summer Semester</p>	<p>1. Program Faculty</p> <p>2. Program Faculty</p>	<p>1. 100% (12/12) of the students received a 90 or above on the presentation</p> <p>2. 100% (8/8) of the students received a 90 or above on the presentation</p>	<p>1. Faculty will continue to require presentations for the professional organizations. The course is now only offered to accepted programmatic students and will be evaluated in the Fall Semester of the students 1<sup>st</sup> year in the program. It is noted that the benchmark was met and this tool will continue to be implemented as a good tool to measure the student's knowledge on professional organizations.</p> <p>2. Faculty finds this tool as an indication as to how much students know about professionalism in medicine, especially in the field of Radiography. Faculty will continue to use this tool as a way to help students better grasp ARRT and ASRT practice standards for a better understanding of what is expected of them as technologists.</p>
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**Goal 5: Students will be prepared for immediate employment as a radiologic technologist or continuing studies in the field of diagnostic imaging.**

Outcome	Assessment Tool	Benchmark	Assessment Schedule	Person Resp.	Results	Actions
5.1 Students will find employment in an imaging modality.	MS Dept. of Education Office of Vocational Technical Education Follow- Up Report	a. 80% of the graduates seeking employment will find employment within 6 months of graduation  b. 5 year Average	Annually	Office of Vocational Technical Ed.	2022:6/6 (100%) 2021: (4/4) 100% 2020: (6/7) 86% 1 student in sonography school 2019 (9/9) 100% 2018: (9/10) 90% 2017: (9/10) 90% 2016: (11/11) 100% 2015: (11/11) 100% 3 students did not seek 1 student in sonography school 2014: (5/6) 83% 3 students did not seek 2013: 100% (7/7) employment b. 5 year average: 95.2%	The instructors will continue to post job openings for the students and send an e-mails from employers to students. Students are encouraged to participate in local job fairs. The instructors also maintain a private alumni Facebook page to post job openings for past graduates.
5.2 Students will be prepared for and pass a National Certification Examination.	1. Graduate Exit Survey, Q. 13.  2.ARRT exam results	1. 85% of the respondents of the graduate exit survey will respond with a 4 or above that the program adequately prepared them for ARRT exam.  2a. 80% of the graduates which sit for the certification examination will pass the exam on the first attempt  2b. 5 year Average	1. Annually  2. Annually	1. Program Director  2. Program Director	1. 100% (8/8) (2023) graduates responded with a 4 or above on the graduate exit survey question #13.  2a. 7/8 (87.5%) (2023) of graduates who sat for the National Certification Exam	1. Instructors were pleased with the graduate survey responses this year, will continue to utilize this a way to make sure students feel adequately prepared for the Registry  2a/b.The instructors noted a decrease in the pass rate percentage for 2023. The instructors will continue to require the portfolio based on the registry outline for the ARRT. Students will also still be required to sit through the Kettering seminar in May each year. The instructors are still using RadReview Easy as well as implementing software such as Rad Tech Bootcamp. Rad Tech Bootcamp and Rad Review Easy use

					<p>passed on the first attempt</p> <p>2022: 100% (6/6)  2021: 78% (7/9)  2020: 85% (6/7)  2019 89% (8/9)  2018: 80% (8/10)  2017 80% (8/10)  2016: 91% (10/11)  2015: 67% (8/12)  2014: 89% (8/9)  2013: 90% (9/10)  2b. 5 year average: 87.9%</p>	<p>resources within the site and the mock ARRT registry provided to correlate actual passing test scores (1<sup>st</sup> attempt) to those that are given in the mock exam. This will be beneficial to give faculty a better look at how well resources involved are prepping students for the registry.</p>
5.3 Employers of RT graduates will be satisfied with job performance	Employer Evaluation Question 1(k)	<p>a.80% of the graduates will achieve an average rating of good (4) on the Likert scale in response to question #1 (k)</p> <p>b.5 year Average</p>	Annually- 6 months following graduation	Program Director	<p>a. 100% (2022) of graduates achieved an average rating of good in responded to the question "How</p>	<p>The program faculty was pleased this time with the response to the employer survey. This year, a QR code was sent out to make the process easier for the clinical affiliates. 9 surveys were returned this year which, is an 80% increase in returned surveys. The program will continue to use the QR code as a basis to access the employer survey.</p>
					<p>would you rate overall job preparation?"</p> <p>2021: 80%  2020: 100%  2019: 100%  2018: 100%  2017: 100%  2015: 100%  2014: 100%  2013: 100%  2012: 100%  2011: 100%  5 year avg: 96%</p>	

<p>5.4 Students who start the program will finish the program</p>	<p>a. Official enrollment and program completion data</p>	<p>75% of students who start the program will finish the program</p>	<p>Annually</p>	<p>Program Director</p>	<p>a. (8/12, 8/8) 100% of students who started the program, finished the program. (Reasons as to why students attrite seen on program effectiveness Annual Completion Document attached)</p> <p>2022: (6/12, 6/8) 75%</p> <p>2021: (9/12) 92%</p> <p>2020 (7/12) 87.5%</p> <p>2019 (9/12) 75%</p> <p>2018 (10/12) 83%</p> <p>2017: (10/12) 83%</p> <p>2016: 92% (11/12)</p> <p>2015: 100% (12/12)</p> <p>2014: 75% (9/12)</p> <p>2013: 83% (10/12)</p> <p>5 year avg: 85.9%</p>	<p>The benchmark was met for the 2023 graduates in accordance to the set JRCERT standard 6.1. The program faculty will continue to monitor the attrition rate and look at reasons for attrition. Most of the attrition is based on nonacademic situations with the students (8/8= 100% reported completion rate). Please see attrition attachment located at the end of the plan.</p>
<p>5.5 Graduates will feel that they were adequately prepared.</p>	<p>Graduation Exit Survey- Section 2, Question #2</p>	<p>85% of respondents to the graduation exit survey will say the program adequately prepared them for a career as an entry-level radiologic technologist by responding with a 3 or higher.</p>	<p>Summer</p>	<p>Program Faculty</p>	<p>2023: (8/8) 100%</p> <p>2022: (6/6) 100%</p> <p>2021: (9/9) 100%</p> <p>2020: (6/6) 100%</p> <p>2019: (9/9) 100%</p> <p>2018: (10/10) 100%</p> <p>2017: (10/10) 100%</p> <p>2015: 100% (12/12)</p> <p>2014: 100% (9/9)</p> <p>2013: 100% (10/10)</p> <p>2012: 100% (11/11)</p> <p>5 year avg: 100%</p>	<p>The program faculty will continue to monitor the graduate exit survey results.</p>



Program Effectiveness: Annual Program Completion 2023

Completion of the Radiology Technology Program in 2023, the following has been created to give verification and understanding as to why our program (0436) met the 75% goal set by the JRCERT.

Student	Completion Yes/No	Description
A.	Yes	-
B.	No	- Family reasons
C.	Yes	-
D.	Yes	-
E.	Yes	-
F.	Yes	-
G.	No	- Family/Personal Reasons
H.	No	- Changed majors
I.	No	- Changed majors
J.	Yes	-
K.	Yes	-
L.	Yes	-

TOTAL- 8/8 completion (with exceptions listed in Standard 6.1 by the JRCERT) = 100%  
 All information is hereby deemed accurate for the graduate class of 2023.

