WASHTENAW COMMUNITY COLLEGE

PROGRAM ASSESSMENT REPORT

Program Code: APRAD Division: Health Science		Name: Radiography Program Department: Allied Health Department		
Award A.A.	A.S	A.A.S.		
☐ Cert.	Adv. Cert.	Post-Assoc. Cert.	☐ Cert. of Completion	

I. Review previous assessment reports submitted for this program and provide the following information.

1. Was this program previously assessed and if so, when?

The assessment was administered during the fall of 2015, winter and spring of 2016. The final report was submitted in December of 2017.

2. Briefly describe the results of previous assessment report(s).

Program effectiveness data indicated a high pass rate for the national certification exam (99%) and a strong job placement rate (94%). Students indicated they were adequately prepared for entry-level positions in the field of radiography. An area of weakness was identified for SLO 3.1 involving an imaging lab used to assess the student's ability to adjust kVp and recognized changes in radiographic contrast. (Please review submitted assessment plan).

3. Briefly describe the <u>Action Plan/Intended Changes</u> from the previous report(s), when and how changes were implemented.

During a program meeting at the end of the 2017 fall semester, Ms. Foster stated that all of the benchmarks for goal 3 were exceeded except for SLO 3.1, which used the RAD 124 kVp/contrast Lab assignment as the assessment tool. She noted that data from both the 2014-15 and 2015-16 assessments indicated that students did not meet the benchmark. Mr. Nelson stated that the effect of kVp on image contrast is a difficult concept for first year students to grasp. Mr. Skufis noted that the concept of kVp and contrast is not reinforced at the clinical sites because of the use of digital imaging and automatic exposure controls (AEC). The faculty agreed it would be best to replace the RAD 124 kVp/contrast lab assignment with another assessment tool. Ms. Foster recommended reviewing and revising RAD 111 to reinforce the concepts of kVp/contrast. Mr. Nelson suggested using the Effect of Distance on Density/Density Maintenance Formula lab. This lab will be effective in assessing the student's ability calculate the required exposure necessary to maintain exposure to the image receptor when distances are changed. Understanding this concept is essential in the clinical setting.

II. Background Information

Indicate the semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2016	2017	2017

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Assessment tool(s) used (check all that apply);
Portfolio
Standardized test
Other external certification/licensure exam (please describe):
Graduate Survey
Employer Survey
Advisory Committee Survey
Transfer follow-up
Externally evaluated performance or exhibit
Externally evaluation of job performance (internship, co-op, placement, other)
☐ Capstone experience (please describe):
☑ Other (please describe): Embedded Assessments
3. Have any of these tools been used before?
⊠ Yes (if yes, identify the tool below and describe any changes made since it was last
administered)
□ No
Changes:
For student Learning Outcome 3.1, the lab assignment Effect of kVp on Image Contrast was replaced with the lab assignment Effect of Distance on Density/Density Maintenance Formula
4. Indicate the number of students assessed/total number of students enrolled in the
course(s)/program.
All program students were evaluated (54)
5. Doggriba hayyyay adadadadada 1. 5. 4
5. Describe how you selected students for the assessment.
a. Describe your sampling method.
b. Describe the population assessed (e.g. students in capstone course, graduating students,
alumni).
A 1st and 20d as an action of the second sec
A. 1st and 2nd year radiography students. First year students entered the program in May of 2016
and Second year students entered the program in May of 2015.
B. Continuing (1st year) and graduating students (2nd year – Class of 2017).
III. Results
1. State every outcome (verbatim) from the Program Assessment Planning or Program Proposal
form for the program. Add more lines as needed.
Goal 1. Students will be clinically competent
1.1 Students will perform diagnostic radiographic procedures.
1.2 Students will correctly operate radiographic equipment.
1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
Goal 2: Students will communicate effectively both orally and in writing.
2.1 Students will use effective oral communication skills in the clinical setting.
2.2 Students will practice writing skills.
Goal 3: Students will critically think and effectively solve problems.
3.1 Students will calculate correct exposure factors. 3.2 Students will solve problems in the clinical setting.
Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
4.1 Graduates will value the principles of lifelong learning.
4.2 Students will recognize the ethical and medical issues in patient care.
and and medical issues in patient care.

4.3 Students will exhibit professional behaviors in the clinical setting.

Goal 5: Program Effectiveness Measures:

- 5.1 5-year average pass rate for the ARRT credentialing examination is not less than 75% on the first attempt.
- 5.2 5-year average job placement rate of graduates actively seeking employment is not less than 75% within 12 months of graduation.
- 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence.
- 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
- 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.
- 2. Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. Please attach a <u>summary of the data collected</u> (as a separate document). Add more lines as needed.

See attached 2016-17 Radiography Annual Assessment Report

 For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. Please attach the <u>rubric/scoring guide</u> used for the assessment (as a separate document). Add more lines as needed.

See attached 2016-17 Radiography Annual Assessment Report

4. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths:

- 1. Radiography students are mastering the radiographic concepts and skills as they progress through the program.
- 2. The 5 year ARRT first attempt pass rate for the ARRT Radiography certification exam is 98%. Although this is a percentage point reduction from the previous year, I am happy to report that the one student that failed from that cohort (Class of 2017) worked with program faculty and passed the exam in November of 2018.
- 3. The 5 year job placement rate increased from 94% to 97%.
- 4. Employers indicated that the graduates were adequately prepared for entry level positions.

Weaknesses:

The completion rate continues to fluctuate and hover just above the benchmark.

IV. Changes influenced by assessment results

1. Based on the previous assessment report Action Plan(s) identified in Section I above, please discuss how effective any changes were in improving student learning.

A new assessment tool was utilized for SOL 3.1. The benchmark for the RAD 124 Distance Maintenance Formula lab assignment was met. The 2016-17 average score for the RAD 124 lab assignment was 25.36.

If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses. If students met all expectations, describe your plan for continuous improvement.

Student expectations were met. The radiography program faculty will continue to review and update curriculum as need based on course guidelines from the American Society of Radiologic Technologists (ASRT) and American Registry of Radiologic Technologists (ARRT)

3.	Identify any other intended changes that will be instituted based on results of this assessment activity. Describe changes and give rationale for change. (Check all that apply).
	a. Outcomes/assessments from Program Assessment Planning or Program Proposal form:
	b. Program Curriculum: Course sequencing Course deletion Course addition Changes to existing program courses (specify); Other (specify):
	c. Other (specify):
4.	What is the timeline for implementing these actions?
/ .	Future plans
1.	Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program. The assessment tools were effective in documenting the success of the students as they progress
L	through the program.
2. r	If the assessment tools were not effective, describe the changes that will be made for future assessments.
Sul	omitted by:
Nai	me:
Dep	partment Chair: 12/14/18 Print/Signature Date: 13/14/18
Dea	Print/Signature Date: 12-17-18

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	ound Inform				
1. Pro	ogram Asses				
			graphy Program		
ъ.		m code: APRA		A11' 177 11 D	D 11 1
Div	vision: Healt	h Science	Depar	tment: Allied Health Depa	irtment - Radiography
Тур	pe of Award	A.A. Cert.	A.S Adv. Cert.		Cert. of Completion
	mester assess Fall 20 <u>15</u> Winter 20 <u>16</u> Spring/Sum	į	nistered (check or	ne):	
	Portfolio Standardize			lease describe):_ARRT Ra	adiography Certification
Exam		-	4	,	
	Transfer fol Externally e Externally ex Capstone ex	urvey ommittee Surve low-up valuated perfor valuation of job sperience (pleas	mance or exhibit performance (into	ernship, co-op, placement ts	, other)
	•	ese tools been u dentify which to			
		ool been altered ks were updated		inistration? If so, briefly o	lescribe changes made.
5. Inc 45		mber of studen	ts assessed/total n	umber of students enrolle	d in the course.
6. De	a. Desc b. Desc	ribe your samp ribe the popula	tion assessed (e.g.	essment. et and 2nd year radiography s graduating students, alum graduating students	
II. Results 1. If applie		describe the cl	nanges that were ir	nplemented in the progran	n as a result of the

previous assessment.

The radiography curriculum is being updated to phase out conventional film/screen concepts and phase in digital imaging concepts as the technology changes.

- 2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.
 - Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
 - Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
 - Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
 - Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of lifelong learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
 - Goal 5: Program Effectiveness Measures
 - 5.1 Five year average pass rate for the ARRT credentialing examination is not less than 75% on the 1st attempt.
 - 5.2 Five year job placement rate of graduates actively seeking employment is not less than 75% within 12 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence.
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected (as a separate document).*

See attached 2015-16 Radiography Annual Assessment Report.

3. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment (as a separate document).*

See attached 2015-16 Radiography Annual Assessment Report.

4. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths:

- 1. The radiography students are mastering the radiographic concepts and skills as they progress through the program.
- 2. The 5-year ARRT pass rate for the ARRT Radiography Certification exam is 99%.
- 3. The 5-year job placement rate is 94%.
- 4. Students indicated that the program adequately prepared them for an entry-level position.
- 5. Employers indicated that the graduates were adequately prepared for entry-level positions.

Weaknesses:

- 1. Students were not successful at recognizing how kVp affects image contrast.
- 2. The completion rate continues to fluctuate and hover just above the benchmark.

III. Changes influenced by assessment results

If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
 Use a different tool to evaluate SLO 3.1 – "Students will calculate correct exposure factors."
 Also review and revise RAD 111 to reinforce the concept of kVp/contrast.
 The waitlist policy was abolished by the Board of Trustees in December 2014 and a competitive

admission policy was adopted. The new competitive admission policy is expected to alleviate the number of voluntary withdrawals over the next few years as the last of the waitlisted

Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change.
 a.
 Outcomes/assessments from Program Assessment Planning or Program Proposal form:

b. Program Curriculum:
course sequencing
course deletion
course addition
changes to existing program courses (specify):
other (specify):
c. 🗌 Other (specify):

3. What is the timeline for implementing these actions?

applicants are admitted.

IV. Future plans

1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.

The assessment tools were effective in documenting the success of the students as they progress through the program.

2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

Submitted by:

Name: Connie Foster Print/Signature	Date: 12/18/2017
Department Chair:	Date: 12/18/2017
Dean: Valerie Greaves/Valum Ynn	Date: 12/20117
Print/Signature	

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I. Ba					
		ealth Sciences		Department: Allied Hea	lth Department
	Type of Awa	ard: A.A. Cert.	A.S Adv. Cert.		Cert. of Completion
	✓ Fall 20<u>14</u>✓ Winter 2		nistered (check on	e):	
E	☐ Portfolio ☐ Standard ☑ Other ex	ized test		olease describe):_ARRT Ra	adiography Certification
Exan	Graduate Employe Advisory Transfer Externall Capstone	r Survey Committee Survey follow-up ly evaluated perform	mance or exhibit performance (into	ernship, co-op, placement esessments	, other)
		these tools been ues, identify which to			
	If yes, has this No	tool been altered s.	ince its last admin	istration? If so, briefly des	cribe changes made.
(umber of students enrolle ography students enrolled in	d in the course. 55 students Radiography Program)
	a. D b. D	escribe the popula	ing method. All fit tion assessed (e.g.	ssment. Ist and second year radiograp graduating students, alum raduating radiography stu	ni, entering students,

II. Results

- 1. If applicable, briefly describe the changes that were implemented in the program as a result of the previous assessment.
 - 1. To provide students with the option for continuing their education upon completing the Radiography program an MRI program.
 - 2. The waitlist for the radiography program was abolished and a competitive admission policy was adopted.
- 2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.

3. Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected (as a separate document).*

Students exceeded all benchmarks except for one of the two benchmarks that were assessed for outcome 3.1 - Students will calculate correct exposure factors. Two tools were used to assess this outcome: RAD 120 Final Semester Technique Selection Evaluation and RAD 124 Effect of kVp on Image Contrast lab assignment. The average score for the RAD 124 lab assignment was 15 (benchmark average score \geq 17) and the average score for the RAD 120 evaluation was 97% (benchmark average score was 80% or better). This data indicates that the first year radiography students had difficulty in grasping the concept of kVp and image contrast via the lab assignment but in the following semester the data from the RAD 120 Final Semester Technique Selection Evaluation showed that the same students demonstrated the ability to select the correct exposure factors. The results of the data for the 3.1 SLO indicate that as the radiography students progress through the program, they become proficient in using exposure factors. (See attached 2014-15 Annual Radiography Program Assessment Report)

4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment (as a separate document).*

See the attached 2014-15 Annual Radiography Program Assessment Report

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: Overall the radiography students are doing well across the curriculum. 100% of the graduates passed the national board exam on the first attempt and 100% of the graduates seeking employment found an entry level position. Graduates also expressed satisfaction with the program.

Weaknesses: One Outcome (3.1) was not met; the first year radiography students struggled with the concept of kVp and image contrast. Student retention continues to fluctuate.

III. Changes influenced by assessment results

1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.

The multiple assessment tools revealed that the radiography students were meeting or exceeding all of the outcomes except 3.1. The faculty will review and revise the learning activities in RAD 111 and RAD 124 to provide a better foundation in the concept of kVp and image contrast.

To address the student retention issue, the radiography program admission policy has been changed from the waitlist to a competitive admission process.

2. Identify any other intended changes that will be instituted based on results of this assessment activity
(check all that apply). Describe changes and give rationale for change.
a. Outcomes/assessments from Program Assessment Planning or Program Proposal form: Tw
assessment tools will be used for each SLO; one for the 1st year students and one for the 2nd year students. (See
attached 2014-15 Annual Radiography Program Assessment Report.)
b. Program Curriculum:
course sequencing
course deletion
course addition
changes to existing program courses (specify): RAD 111 & RAD 124 course materials on
kVp and image contrast will be reviewed and updated.

Submitted	by:
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Name: Connie Foster Omi Listu Date: 03/06/2017

Print/Signature
Department Chair: Connie Foster Omi Foster Date: 03/06/2017

Print/Signatu
Dean: Valerie Greaves Valuru Viewus Date: 12/1/17

Print/Signature

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_	d Information			
1. Progr	am Assessed	,		
	Program name: Radiog Program code: APRA			
Divisi	on: Health Sciences	D	Department: Allied He	alth Department
Туре	of Award: A.A.	A.S Adv. Cert.		Cert. of Completion
☐ Fa ☐ Wi ☐ Sp 3. Assess ☐ Po ☐ Sta ☐ Ot ☐ En ☐ Tr. ☐ Ex ☐ Ca ☐ Ot		all that apply): /licensure exam (presented or exhibit performance (interested edescribe): al Clinical Performance	olease describe): <u>ARRT R</u> ernship, co-op, placemen nance Evaluation & Profe	
	any of these tools been uses (if yes, identify which to		e used before.	
•	as this tool been altered sools have not been altered		istration? If so, briefly de	scribe changes made.
	ate the number of student ts; 23 second-year students	es assessed/total n	umber of students enrolle	ed in the course. 25 first-
6. Descr	ibe how students were se a. Describe your sampl			phy students were included in
the assessment.	b. Describe the populate continuing students)?		graduating students, alun graduating students	nni, entering students,
II. Results				
previous a	ole, briefly describe the ch ssessment. was abolished and a compe			m as a result of the

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Approved by the Assessment Committee 10/10/06

- 2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.
 - Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
 - Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
 - Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
 - Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of lifelong learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
 - Goal 5: Program Effectiveness Measures
 - 5.1 Five year average pass rate for the ARRT credentialing examination is not less than 75% on the 1st attempt.
 - 5.2 Five year job placement rate of graduates actively seeking employment is not less than 75% within 12 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence.
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. Please attach a summary of the data collected (as a separate document).

See attached 2013-14 Annual Assessment Report

	Goal 1: Students will be clinically competent.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
1.1	Students will perform diagnostic radiographic procedures.	Competency Maintenance section (12A and 12B) of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Competency Maintenance section), 95% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked (12A) "On a regular basis the student performs radiographic procedures previously mastered from prior semesters," and (12B) "When the student is involved in these procedures, the student is able to execute the examination with a minimum or no assistance."	Twenty-four students enrolled in RAD 240 were assessed; all 24 (100%) received an "Effective Performance" rating from their clinical instructors for these metrics. Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure.	
1.2	Students will operate radiographic equipment.	The Technical Aptitude section (C1 and C2) for General Radiography, Portable Radiography, and Fluoroscopic Radiography of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Technical Aptitude section), 95% of students will receive a "3" or better on a 1 to 4 Likert scale with "4" indicating the student performs at the appropriate competency level, "3" that the student's performance is satisfactory but could use some improvement, "2" that the performance is unsatisfactory and needs much improvement, and "1" indicating not at the appropriate competency level for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography.	Twenty-four students enrolled in RAD 240 were assessed; 23 of the 24 students (96%) received a "4" indicating these students perform at the appropriate competency level, and 1 of the 24 (4%) received a "3" indicating that these students performances were satisfactory but could use some improvement. No students received a "2" or "1" for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography. Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure.	
1.3	Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 222 Patient Assessment Skills Check Out Form	On a sampling of the Patient Assessment Skills Check Out Form, 90% students will achieve passing grade on the venipuncture skills checkout form.	Twenty-three out of twenty-three (100%) students achieved a passing grade on the venipuncture skills checkout form Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure.	

	Goal 2: Stu	dents will communic	cate effectively both orally and in writing.	
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
2.1	Students will use effective oral communication skills in the clinical setting.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale with "5" indicating strongly agrees, "4" agrees, "3" neither agrees nor disagrees, "2" disagrees, and "1" strongly disagrees when responding to the statement in question 1, "The student communicates with patients in a manner that you would expect/require of entry-level radiology staff member."	Fifteen of the Radiography Student Professional Skills Evaluations were returned, and all fifteen evaluations (100%) scored with a "4" or better for this metric. Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure.
2.2	Students will practice writing skills.	Contrast Case Study paper	90% students will achieve a score of 80% or better on the Contrast Case Study writing assignment of RAD 120.	Twenty-five student papers were evaluated. Twenty-four of the twenty-five (96%) received a score above 80%, the high score was 100% and the low score was 70%. Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure

	Goal 3: Stu	dents will critically	think and effectively solve problems	
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
3.1	Students will calculate correct exposure factors.	RAD 124 the Effect of kVp on Image Contrast lab assignment	90% of students will score 80% or higher on the Effect of kVp on Image Contrast lab activity.	23 of the 25 (92%) students scored 80% and above on the Effect of kVp on Image Contrast lab activity. Exceeded benchmark Actions: No actions taken. Results were same as last year. Continue to measure.
3.2.	Students will solve problems in the clinical setting.	Radiography Student Professional Skills Evaluation	90% of the completed Radiography Student Professional Skills Evaluations will rate the students with a "4" or better on a 1 to 5 Likert scale with "5" indicating strongly agrees, "4" agrees, "3" neither agrees nor disagrees, "2" disagrees, and "1" strongly disagrees on question 6, "The student is able to reason through a problem, taking into account all available information, in a manner similar to an entry-level staff member when taking images."	Fifteen Radiography Student Professional Skills Evaluations were returned, and all fifteen evaluations (100%) were scored with a "4" or better (100%) for this metric Exceeded benchmark Actions: No actions taken. Results were same as last year. Continue to measure.

Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.				
Student	Assessment Tool	Benchmark	Results/Actions	

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	Outcomes			
4.1	Graduates will value the principles of life long learning.	Graduate Exit Survey	50% of second-year students will indicate a desire to continue their education by responding to the statement, "Do you have plans to continue your education within the next 12 months?" on the Graduate Exit Survey.	Of the 20 responses from the Graduate Exit Survey, 5% (1) of the students plan to continue within the next 12-months at a 4-year college/university; 65% (13) plan to enter an advanced imaging program; 25% (5) students were undecided and 5% (1) student did not plan to seek additional education. Exceeded benchmark
				Actions: A Magnetic Resonance Imaging (MRI) program has been developed, And will be offered for the first time in Fall 2015. Graduates will have the option of continuing in the MRI, CT or Mammography Program. Results indicated no significant difference from last year. Continue to measure.
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co-Worker Communication and Cultural Diversity	90% of the students will achieve a score of 80% or better on the Patient/Co-Worker Communication and Cultural Diversity writing assignment for RAD 110.	Twenty-five student papers were evaluated. All 25 (100%) received a score above 80%the high score was 100% and the low score was 90%. Exceeded benchmark Actions: No actions taken. Results were same as
4.3	Students will exhibit professional behaviors in the clinical setting.	RAD 240 Final Performance Evaluation	From the Final Clinical Performance Evaluation (Professional Mannerism section), 90% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked if the student has the ability to display professionalism in the clinical setting.	last year. Continue to measure. Twenty-five students enrolled in RAD 240 were assessed; 24 (96%) of the 25 students received an "Effective Performance" rating (20 points) and 1 (4%) received an "Adequate Performance, but needs improvement" rating (10 points) from their clinical instructors for this metric. Exceeded benchmark Actions: No actions taken. Results were slightly lower than last year's 100%. Continue to measure.

	Program Effective	eness Measures:		
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
1.	5-year average pass rate for the ARRT credentialing examination is not less than 75% on the first attempt.	ARRT Annual Program Summary Report for WCC graduates	Five-year average pass rate of not less than 75% on the 1st attempt of the National Radiography Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT).	Year # Candidates #Pass % Pass 2010 24 23 96% 2011 26 26 100% 2012 22 22 100% 2013 22 22 100% 2014 23 22* 96% Five-Year Average: 98.3% *one graduate failed on first attempt but passed on the second attempt. Exceeded benchmark Actions: No actions taken. Continue to measure.
2.	5-year average job placement rate of graduates actively seeking employment is not less than 75% within 12 months of graduation.	Graduate Survey	Five-year average job placement rate of not less that 75% within 12 months of graduation.	Year % Employment Rate 2010 78% 2011 90% 2012 86% 2013 94% 2004 87% 5-year average job placement rate: 86.7% Exceeded benchmark Actions: No actions taken. Continue to measure.

	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
3.	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. Measure will be based on program retention rates (i.e., number of students admitted to the program and the number of students who complete the program within two years.)	23 (74%) of the 31 students admitted (Class of 2014) to the program completed within the 2-year sequence. (4 voluntary withdrawals; 4 dismissals) Exceeded benchmark Actions: The waitlist admission process has been abolished and a competitive admission policy has been adopted. The results were slightly higher than last year's 72%. Continue to measure.	
4.	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey	90% of graduates will express satisfaction with the program by responding to the statement, "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?" on the Graduate Exit.	Of the 20 students who responded to the Graduate Exit Survey, 20 (100%) felt that the WCC Radiography Program prepared them for an entry-level position in a radiology department. 60% (12) students strongly agreed and 40% (8) students agreed. Exceeded benchmark Actions: No actions taken. Results were the same as last year. Continue to measure.	
5.	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 9, "If an entrylevel position was open and this student was applying, you would hire this student."	Fifteen of the Radiography Student Professional Skills Evaluations were returned. Twelve of the fifteen evaluations (80%) were scored with a "4" or better (80%) for this metric. Met benchmark Actions: No actions taken. Results were slightly lower than last year's 81%. Continue to measure.	

3. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. Please attach the rubric/scoring guide used for the assessment (as a separate document).

See the "Benchmark" and "Results/Action" above.

4. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths:

The radiography students have consistently performed at or above the benchmarks established for the program learning outcomes. The students have also met or exceeded the standards established by the JRCERT, the program accreditation agency and the ARRT, the professional organization that administers the national radiography board exam.

Weaknesses: No weakness in students' achievement of learning outcomes was noted. Program retention and completion continue to be a weak area.

III. Changes influenced by assessment results

 If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
 The Radiography Program admission procedure has be changed to a competitive admission process.

2. Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change.

a. Outcomes/assessments from Program Assessment Planning or Program Proposal form:
b. Program Curriculum:
course sequencing
course deletion
course addition

changes to existing program courses (specify):

3. What is the timeline for implementing these actions?

other (specify):

c. Other (specify):

IV. Future plans

1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.

The assessement tools have been very effective in measuring student success. The 5-year pass rate for the ARRT credentialing exam is 98.3% and the 5-year average employent rate is 87%.

- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.
- 3. Which outcomes from Program Assessment Planning or Program Proposal form have been addressed in this report?

Submitted by:	γ	\mathcal{D}		
Name: Connie Foster_	Connie	Folter	Date:	_11/19/15
Print/Signature	1150	lo 4		11.01.
Department Chair: Conn	iie Foster 💢 🗥	wo July	Date: _	11/19/13
Print/Signature	1 /2 /2	01		11.45.11.3
Dean: Valerie Greaves _	Valerii	Greaves / Valc	tie Greaver Date:	11/24/15
Print/Signature	Approved	by toses	senent Com	mittee 1/14/16
Dlages return combleted	form to the Offi	co of Curriclum d	Accessment SC 2	5.7

I. Background Info	rmation			
1. Program As	sessed			
Pro	gram name: Radiogra	aphy Program		
Pro	gram code: APRAD)		
Division:		Depart	ment:	
Type of Aw	ard: A.A. Cert.	A.S Adv. Cert.	A.A.S. Post-Assoc. Cert.	Cert. of Completion
⊠ Fall 20 <u>12</u> Winter 2		istered (check on	e):	
Portfolio Standard Other ex ARRT F Graduate Employe Advisory Transfer External Capstone	ized test sternal certification/li Radiography Certificate Survey or Committee Survey follow-up ly evaluated performally evaluation of job performation of job perform	icensure exam (pation Exam ance or exhibit performance (inte	lease describe):_ ernship, co-op, placement nance Evaluation & Profe	
	these tools been use es, identify which too			
If yes, has this No	tool been altered sin	nce its last admini	stration? If so, briefly des	cribe changes made.
	number of students 22 second year student		umber of students enrolle	d in the course. 23 first
a. D b. D	escribe the population	ng method. all rad on assessed (e.g.	ssment. iography program students graduating students, alum nts and continuing studen	
II. Results				
		nges that were in	plemented in the program	n as a result of the

RAD 103 Medical Professionalism in Clinical Radiography was added to the program. We have also continued to

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Approved by the Assessment Committee 10/10/06
1099ed 9/26/14 5/1

express the need to change the admission policy to a selective admission process.

1 of

- 2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.
 - Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
 - Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
 - Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
 - Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of lifelong learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
 - Goal 5: Program Effectiveness Measures
 - 5.1 Five year average pass rate for the ARRT credentialing examination is not less than 75% on the 1st attempt.
 - 5.2 Five year job placement rate of graduates actively seeking employment is not less than 75% within 12 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence.
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

				Results/Actions
	Student Outcomes	Assessment Tool	Benchmark	
1	Students will perform diagnostic radiographic procedures.	Competency Maintenance section (12A and 12B) of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Competency Maintenance section) 95% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked (12A) "On a regular basis the student performs radiographic procedures previously mastered from prior semesters," and (12B) "When the student is involved in these procedures the student is able to execute the examination with a minimum or no assistance."	Twenty-two students enrolled in RAD 240 were assessed; all 22 received an "Effective Performance" rating from their clinical instructors for these metrics. Exceeded Benchmark
1.2	Students will operate radiographic equipment.	The Technical Aptitude section (C1 and C2) for General Radiography, Portable Radiography, and Fluoroscopic Radiography of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Technical Aptitude section) 95% of students will receive a "3" or better on a 1 to 4 Likert scale with "4" indicating the student performs at the appropriate competency level, "3" that the student's performance is satisfactory but could use some improvement, "2" that the performance is unsatisfactory and needs much improvement, and "1" indicating not at the appropriate competency level for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography.	Twenty-two students enrolled in RAD 240 were assessed; 21 of the 22 received a "4" indicating these students perform at the appropriate competency level, and 1 of the 22 received a "3" indicating that these students performances ware satisfactory but could use some improvement. No students received a "2" or "1" for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography. Exceeded Benchmark
1.3	Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 222 Patient Assessment Skills Check Out Form	90% of the students will attain a score of 100% to demonstrate competency on the venipuncture skills check out form.	Twenty-three students enrolled in RAD 222 were assessed. All 23 students (100%) received a score of 100% on the venipuncture skills checkout form. Exceeded Benchmark

	Goal 2: Stud	lents will communicate	effectively both orally and in writing.	
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
2.1	Students will use effective oral communication skills in the clinical setting.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 1, "The student communicates with patients in a manner that you would expect/require of entry-level radiology staff member."	Twenty-one of the Radiography Student Professional Skills Evaluations were returned. All twenty-one evaluations were scored with a "4" or better (100%) for this metric. Exceeded Benchmark
2.2	Students will practice writing skills.	Contrast Case Study paper	90% of the students will achieve a score of 80% or better on the Contrast Case Study writing assignment of RAD 120.	Twenty-three student papers were evaluated. Twenty-two of the twenty-three received a score above 80%. The high score was 100% and the low score was 70%. Met Benchmark

	Goal 3: Students will critically think and effectively solve problems				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
3.1	Students will calculate correct exposure factors.	RAD 124 the Effect of kVp on Image Contrast lab assignment	90% of students will score 80% or higher on the Effect of kVp on Image Contrast lab activity.	Twenty-five completed the lab activity on the Effects of kVp on Image Contrast. 23 out of 25 (92%) students received an 80% or higher on the assignment. Exceeded Benchmark	
3.2.	Students will solve problems in the clinical setting.	Radiography Student Professional Skills Evaluation	90% of the completed Radiography Student Professional Skills Evaluations will rate the students with a "4" or better on a 1 to 5 Likert scale with "5" indicating strongly agrees, "4" agrees, "3" neither agrees nor disagrees, "2" disagrees, and "1" strongly disagrees on question 6, "The student is able to reason through a problem, taking into account all available information, in a manner similar to an entry-level staff member when taking images."	Twenty-one of the Radiography Student Professional Skills Evaluations were returned. All twenty-one evaluations were scored with a "4" or better (100%) for this metric. Exceeded Benchmark	

	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
4.1	Graduates will value the principles of life long learning.	Graduate Exit Survey	50% of second year students will indicate a desire to continue their education by responding to the statement, "Do you have plans to continue your education within the next 12 months?" on the Graduate Exit Survey.	Of the 13 responses from the Graduate Exit Survey 77% (10) plan to enter an advanced imaging modality; 15% (2) were undecided; and 8% (1) did not plan to continue. Exceeded Benchmark
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co-Worker Communication and Cultural Diversity	90% of the students will achieve a score of 80% or better on the Patient/Co-Worker Communication and Cultural Diversity writing assignment for RAD 110.	Twenty-three student papers were evaluated. All 23 (100%) received a score above 80%the high score was 100% and the low score was 80%.
4.3	Students will exhibit professional behaviors in the clinical setting.	RAD 240 Final Performance Evaluation	From the Final Clinical Performance Evaluation (Professional Mannerism section), 90% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked if the student has the ability to display professionalism in the clinical setting.	Twenty-two students enrolled in RAD 240 were assessed; all 22 received an "Effective Performance" rating from their clinical instructors for these metrics. Exceeded Benchmark

	Program Effectiveness Measures:					
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
1.	5-year average pass rate for the ARRT credentialing examination is not less than 75% on the first attempt.	ARRT Annual Program Summary Report for WCC graduates	Five-year average pass rate of not less than 75% on the 1st attempt of the National Radiography Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT).	Year # Candidates % Pass 2009 37 97% 2010 24 96% 2011 27 100% 2012 22 100% Five-Year Average: 99% Exceeded Benchmark (note: one graduate of the Class of 2013 has not taken the ARRT exam because of personal issues.)		
2.	5-year average job placement rate of graduates actively seeking employment is not less than 75% within 6 months of graduation.	Graduate Survey	Five-year average job placement rate of not less that 75% within 12 months of graduation for graduates actively seeking employment.	Year % Employment Rate 2009 96% 2010 77% 2011 90% 2012 86% 2013 94% 5-year average job placement rate: 89% Exceeded Benchmark		

	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
3.	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. Measure will be based on program retention rates (i.e., number of students admitted to the program and the number of students who complete the program within two years.).	23 (72%) of the 32 students admitted (Class of 2013) to the program completed within the 2-year sequence. (6 voluntary withdrawals; 3 dismissals) Exceeded Benchmark	
4.	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey	90% of graduates will express satisfaction with the program by responding to the statement, "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?" on the Graduate Exit.	Of the 13 students who responded to the Graduate Exit Survey, 13 (100%) felt that the WCC Radiography Program prepared them for an entry-level position in a radiology department. 77% (10) students strongly agreed and 23% (3) students agreed. Exceeded Benchmark	
5.	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 9, "If an entry-level position was open and this student was applying, you would hire this student."	Twenty-one of the Radiography Student Professional Skills Evaluations were returned. Seventeen of the twenty-one evaluations were scored with a "4" or better (81%) for this metric. Met Benchmark	

- 3. Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected (as a separate document)*.

 See attached 2012-13 Radiography Program Annual Assessment Report above.
- 4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. Please attach the rubric/scoring guide used for the assessment (as a separate document).

See attached 2012-13 Radiography Program Annual Assessment Report above.

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: The radiography students have continued to perform above average in both the didactic and clinical portions of the program.

Weaknesses: 1. Although the program retention rate benchmark was met, there continues to be a high number of students withdrawing from the program. During the 2012-13 academic year 6 students withdrew and 3 students were dismissed from the program.

III. Changes influenced by assessment results

- 1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
 - 1. To reduce the voluntary withdrawal rate the waitlist must be abandoned and a selective admission proceess adopted.
 - 2. Although the ARRT credentialing exam pass rate was exceeded, the radiography curriculum will be updated by dropping RAD 226 Radiographic Quality Assurance and adding RAD 232 Introduction to Digital Radiography.

Identify any other intended changes that will be instituted based on results of this assessment activity
(check all that apply). Describe changes and give rationale for change.
a. Outcomes/assessments from Program Assessment Planning or Program Proposal form:
_
b. Program Curriculum:
course sequencing
course deletion
course addition
changes to existing program courses (specify):
other (specify):

c. Other (specify): Explore possibility of changing to a selective admission process to reduce student withdrawal rate.

3. What is the timeline for implementing these actions? RAD 232 Introduction to Digital Radiography will be added in Winter 2015.

IV. Future plans

- 1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.
 - The assessment tools were effective. The radiography students performed well on the national board exam and they are obtaining jobs after graduation.
- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

3. W	hich outcomes from	Program Assessment Plan	ning or Program Pr	oposal torm have been addr	essed in
th	nis report?			-	
		lected			
I	"All", provide the re	port date for the next full	review: _September	2015	
I	"Selected", provide t	he report date for remaini	ng outcomes:	the same	
Subm	itted by:	0 8			
Name	: _Connie Foster_	mui Dt	<u></u>	_Date: _09/09/14	
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Depar	tment Chair: <u>Connie</u>	Foster, Manuel	nous	Date: <u>09/09/14</u>	_
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Dean:	Kris Brandemuehl	Was Muna	inuin	_Date: 9/11/2014	
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Please return completed form to the Office of Curriculum & Assessment, SC 257.

I. 1	Background Information							
	1. Program Assessed							
	Program name: Radiography Program Program code: APRAD							
	Division: MSH Department: Allied Health Department							
	Type of Award: A.A. Cert.	A.S Adv. Cert.	A.A.S. Post-Assoc. Cert.	Cert. of Completion				
	2. Semester assessment was admini Fall 2011 Winter 202012 Spring/Summer 2012	stered (check on	e):					
	3. Assessment tool(s) used (check a Portfolio Standardized test Other external certification/li ARRT Radiography Certificatio Graduate Survey Employer Survey Advisory Committee Survey Transfer follow-up Externally evaluated performs Externally evaluation of job p Capstone experience (please of Other (please describe): Final Study Paper; Patient/Co-Worker courses: Patient Assessment Skill 4. Have any of these tools been use Yes (if yes, identify which too	ance or exhibit performance (interdescribe): Clinical Perform Communication is Check Out was and before?	rnship, co-op, placement, ance Evaluation & Profes & Culture Diversity pape	ssional Skills Evaluation; Contrast				
	If yes, has this tool been altered sin	ce its last admini	stration? If so, briefly desc	cribe changes made.				
	5. Indicate the number of students radiography stuents and 22 second-year r			l in the course. 25 first-year				
	6. Describe how students were selected as Describe your sampling b. Describe the population continuing students)?	g method. on assessed (e.g. g	graduating students, alumr	ni, entering students,				
II.	Results							
1.	If applicable, briefly describe the charassessment. The number of students admitted to students).			-				

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- State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.
 - Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
 - Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
 - Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
 - Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of lifelong learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
 - Goal 5: Program Effectiveness Measures
 - 5.1 Five year average pass rate for the ARRT credentialing examination is not less than 75% on the 1st attempt.
 - 5.2 Five year job placement rate of graduates actively seeking employment is not less than 75% within 6 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence.
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

	Goal 1: Students will be clinically competent.			
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
1.1	Students will perform diagnostic radiographic procedures.	Competency Maintenance section (12A and 12B) of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Competency Maintenance section) 95% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked (12A) "On a regular basis the student performs radiographic procedures previously mastered from prior semesters," and (12B) "When the student is involved in these procedures the student is able to execute the examination with a minimum or no assistance."	Twenty-two students enrolled in RAD 240 were assessed; all 22 (100%) received an "Effective Performance" rating from their clinical instructors for these metrics. Exceeded benchmark
1.2	Students will operate radiographic equipment.	The Technical Aptitude section (C1 and C2) for General Radiography, Portable Radiography, and Fluoroscopic Radiography of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Technical Aptitude section) 95% of students will receive a "3" or better on a 1 to 4 Likert scale with "4" indicating the student performs at the appropriate competency level, "3" that the student's performance is satisfactory but could use some improvement, "2" that the performance is unsatisfactory and needs much improvement, and "1" indicating not at the appropriate competency level for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography.	Twenty-two students enrolled in RAD 240 were assessed; 20 of the 22 (91%) received a "4" indicating these students perform at the appropriate competency level, and 2 of the 22 (9%) received a "3" indicating that these students' performances were satisfactory but could use some improvement. No students received a "2" or "1" for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography. Exceeded benchmark
1.3	Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 222 Patient Assessment Skills Check Out Form	On a sampling of the Patient Assessment Skills Check Out Form, 90% students will achieve passing grade on the venipuncture skills check out form.	Of the 25 students enrolled in RAD 222, 100% (25) of the students scored between 90% - 100% Exceeded Benchmark

	Goal 2: Stu	Goal 2: Students will communicate effectively both orally and in writing.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
2.1	Students will use effective oral communication skills in the clinical setting.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 1, "The student communicates with patients in a manner that you would expect/require of entry-level radiology staff	Fifteen of the Radiography Student Professional Skills Evaluations were returned. Thirteen of the fifteen evaluations were scored with a "4" or better (87%) for this metric. Exceeded benchmark		
2.2	Students will practice writing skills.	Contrast Case Study paper	member." 90% students will achieve a score of 80% or better on the Contrast Case Study writing assignment of RAD 120.	Twenty six student papers were evaluated. All 26 (100%) received a score above 80%the high score was 100% and the low score was 80%. Exceeded benchmark		

	Goal 3: Stu	Goal 3: Students will critically think and effectively solve problems				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
3.1	Students will calculate correct exposure factors.	RAD 124 the Effect of kVp on Image Contrast lab assignment	90% of students will score 80% or higher on the Effect of kVp on Image Contrast lab activity.	Twenty-six students were evaluated. Twenty-four of the students (92%) scored 80% or better on this activity. Exceeded benchmark		
3.2.	Students will solve problems in the clinical setting.	Radiography Student Professional Skills Evaluation	90% of the completed Radiography Student Professional Skills Evaluations will rate the students with a "4" or better on a 1 to 5 Likert scale with "5" indicating strongly agrees, "4" agrees, "3" neither agrees nor disagrees, "2" disagrees, and "1" strongly disagrees on question 6, "The student is able to reason through a problem, taking into account all available information, in a manner similar to an entry-level staff member when taking images."	Fifteen of the 22 Radiography Student Professional Skills Evaluations were returned. Fifteen of the fifteen evaluations were scored with a "4" or better (100%) for this metric Exceeded benchmark		

	Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.			
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
4.1	Graduates will value the principles of life long learning.	Graduate Exit Survey	50% of second year students will indicate a desire to continue their education by responding to the statement, "Do you have plans to continue your education within the next 12 months?" on the Graduate Exit Survey.	Of the 14 responses from the Graduate Exit Survey 7% (1) of the students plan to continue at a 4-year institution; 57% (8) students plan to enter an advanced imaging modality; 21% (3) students were undecided; 14% (2) expressed no interest in earning a higher degree. Exceeded Benchmark. Of the 2012 graduates, 4 students were admitted to the Mammography program and 4 students were admitted to the CT program.
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co-Worker Communication and Cultural Diversity	90% of the students will achieve a score of 80% or better on the Patient/Co-Worker Communication and Cultural Diversity writing assignment for RAD 110.	Twenty six student papers were evaluated. All 25 (100%) received a score above 80%the high score was 100% and the low score was 90%. Exceeded benchmark
4.3	Students will exhibit professional behaviors in the clinical setting.	RAD 240 Final Performance Evaluation	From the Final Clinical Performance Evaluation (Professional Mannerism section), 90% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked if the student has the ability to display professionalism in the clinical setting.	Twenty-two students enrolled in RAD 240 were assessed; 20 of the 22 students received an "Effective Performance" rating (20 points) and 2 received an "Adequate Performance, but needs improvement" rating (10 points) from their clinical instructors for this metric. Exceeded benchmark

	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
1.	5-year average pass rate for the ARRT credentialing examination is not less than 75% on the first attempt.	ARRT Annual Program Summary Report for WCC graduates	Five-year average pass rate of not less than 75% on the 1st attempt of the National Radiography Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT).	Year # Candidates % Pass 2008 29 96.6% 2009 37 97.3% 2010 24 95.8% 2011 27 100% 2012 22 100% 5-year pass rate: 97.9% Exceeded benchmark	
2.	5-year average job placement rate of graduates actively seeking employment is not less than 75% within 6 months of graduation.	Graduate Survey	Five-year average job placement rate of not less that 75% within 6 months of graduation.	Year % Employment Rate 2008 79% 2009 82% 2010 70% 2011 90% 2012 80% 5-year average job placement rate: 80% Exceeded benchmark	
3.	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. Measure will be based on program retention rates (i.e., number of students admitted to the program and the number of students who complete the program within two years.)	22 (69%) of the 32 students admitted (Class of 2012) to the program completed within the 2-year sequence. Did not meet benchmark. Actions Taken: Admission requirements have been increased so that students are better prepared academically. A radiography course on Medical Professionals has been added to the radiography program curriculum to provide the students with a better understanding of the expectations of the clinical environment.	
4.	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey	90% of graduates will express satisfaction with the program by responding to the statement, "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?" on the Graduate Exit.	Of the 14 responses from the Graduate Exit Survey 100% (14) felt that the WCC Radiography Program prepared them for an entry-level position; 64% (9) strongly agree and 36% (6) student agreed. Exceeded benchmark	
5.	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 9, "If an entry-level position was open and this student was applying, you would hire this student."	Fifteen of the Radiography Student Professional Skills Evaluations were returned. Thirteen of the fifteen evaluations were scored with a "4" or better (87%) for this metric. Exceeded benchmark	

Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. Please attach a summary of the data collected (as a separate document).

See Annual Assessment Report above

- 3. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment (as a separate document)*. See Annual Assessment Report above.
- 4. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths:

The radiography students were successful in the lecture, lab, and clinical courses and there continues to be a high pass-rate on the national ARRT Radiography Certification exam. Also, despite the poor Michigan economy the majority of the 2012 graduates were able to find a job.

Weaknesses:

The student retention benchmark was not meet. Only 69% of the students admitted to the program completed within 2-years.

III. Changes influenced by assessment results

1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.

To address the issue of student retention, a course in medical professionalism has been added to the radiography program. We will explore the possibility of changing the admission process from a passive process to a competitive process.

 Identify any other intended changes that will be instituted based on results of this (check all that apply). Describe changes and give rationale for change. a.	•
b. Program Curriculum:	
3. What is the timeline for implementing these actions? Spring/Summer 2013	
IV. Future plans	
1. Describe the extent to which the assessment tools used were effective in measuring learning outcomes for this program.	
The assessment tools were successful in identifying the strengths and weaknesses of the assessment tools were not effective, describe the changes that will be made	of the radiography program for future assessments.
 Which outcomes from Program Assessment Planning or Program Proposal form this report? All X Selected If "All", provide the report date for the next full review: <u>Fall 2013</u> 	have been addressed in
If "Selected", provide the report date for remaining outcomes:	·
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Submitted by:	ρ	
Name: <u>Connie Foster</u>	Comu Fota	Date: _ [/ / 3
Print/Signature Department Chair: Cor	nnie Foster Course Foto	Date: 1/1/13
Dring / Cianaturus	Snowalter Marthy House	Date: 1/15/13
Print/Signature		

Please return completed form to the Office of Curriculum & Assessment, SC 257.

Approved by the Assessment Committee 10/10/06 logged 12/4/11 5

1. 1	1 Decree Access 1	
	1. Program Assessed	
	Program name: Radiography Program Program code: APRAD	
	Division: Math, Science, and Health Department: Allied Health Department	n t
	Division. Main, Science, and Teatin Department. Miled Teatin Department	
	Type of Award: A.A. A.S. A.A.S. A.A.S. Cert. Cert. Cert. of Complete	ion
	 2. Semester assessment was administered (check one): 	
	3. Assessment tool(s) used (check all that apply): □ Portfolio □ Standardized test □ Other external certification/licensure exam (please describe): ARRT Radiography Certification Exam □ Graduate Survey □ Employer Survey □ Advisory Committee Survey □ Transfer follow-up □ Externally evaluated performance or exhibit □ Externally evaluation of job performance (internship, co-op, placement, other) □ Capstone experience (please describe): Radiation Biology & Protection paper □ Other (please describe): Final Clinical Performance Evaluations & Radiography Student □ Professional Skills Evaluations were used for the clinical courses; Patient Assessment Skills □ Checkout used for RAD 222; Density Maintenance Formula Lab Activity was used for RAD □ 124; Patient/Co-Worker Communication & Cultural Diversity was used for RAD 110. 4. Have any of these tools been used before? □ Yes (if yes, identify which tool) all tools were used in the previous year □ No	
	If yes, has this tool been altered since its last administration? If so, briefly describe changes made. The tools were not altered.	
	5. Indicate the number of students assessed/total number of students enrolled in the course. 26 secon year radiography students and 28 first year radiography students	nd
the	6. Describe how students were selected for the assessment. a. Describe your sampling method. All first and second year radiography students were included assessments.	d in
are	b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? The entering (1st year) and graduating (2nd year) radiography students.	
	Results If applicable, briefly describe the changes that were implemented in the program as a result of the previous assessment. The assessment data indicated a drop in the employment rate for the program graduates which resulted in the admission numbers being reduced for 34 to 32 students.	
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2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.

State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.

- Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
- Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
- Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
- Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of lifelong learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
- Goal 5: Program Effectiveness Measures
 - 5.1 Graduates will pass the state licensure and/or certification for diagnostic radiography.
 - 5.2 Graduates who are seeking employment will obtain a position within 6 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

X

Annual Assessment Report Radiography program 2010 – 2011 Academic Year

	Goal 1: St	Goal 1: Students will be clinically competent.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
1.1	Students will perform diagnostic radiographic procedures.	Competency Maintenance section (12A and 12B) of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Competency Maintenance section) 95% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked (12A) "On a regular basis the student performs radiographic procedures previously mastered from prior semesters," and (12B) "When the student is involved in these procedures the student is able to execute the examination with a minimum or no assistance."	Of the 25 evaluations, all 25 students (100%) received a 20-point performance rating of "Effective Performance," for these two measures. Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again at the end of the 2012 Sp/Su semester. Although we do not see any decrease in student performance compared to prior years, this is a new assessment tool for this benchmark and further observation is needed to determine this tool's validity.		
1.2	Students will operate radiographic equipment.	The Technical Aptitude section (C1 and C2) for General Radiography, Portable Radiography, and Fluoroscopic Radiography of the Final Clinical Performance Evaluation for RAD 240.	On a sampling of the Final Clinical Performance Evaluation (Technical Aptitude section) 95% of students will receive a "3" or better on a 1 to 4 Likert scale with "4" indicating the student performs at the appropriate competency level, "3" that the student's performance is satisfactory but could use some improvement, "2" that the performance is unsatisfactory and needs much improvement, and "1" indicating not at the appropriate competency level for "Setting Exposure Technique" and "X-Ray Tube and Bucky Tray Competency" in the areas of General Radiography, Portable Radiography, and Fluoroscopic Radiography.	Of the 25 evaluations, all 25 students (100%) received a "3" or better. Two students received a "3" for "Setting Exposure Technique" in General Radiography, one student received a "3" for "Setting Exposure Technique" in Portable Radiography, and one student received a "3" for "Setting Exposure Technique" in Fluoroscopic Radiography; all other student scores in these areas were "4." Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again at the end of the 2012 Sp/Su semester. Although we do not see any decrease in student performance compared to prior years, this is a new assessment tool for this benchmark and further observation is needed to determine this tool's validity.		
1.3	Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 222 Patient Assessment Skills Check Out Form	On a sampling of the Patient Assessment Skills Check Out Form, 90% students will achieve passing grade on the venipuncture skills check out form.	Of the 28 students enrolled in RAD 222, 96% (27) of the students scored between 90% - 100%; and 4% (1) failed. Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again during the 2012 Winter semester.		

	Goal 2: St	Goal 2: Students will communicate effectively both orally and in writing.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
2.1	Students will use effective oral communication skills in the clinical setting.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 1,"The student communicates with patients in a manner that you would expect/require of entry-level radiology staff member."	Of the 22 surveys returned, all 22 received a "4" or better; 20 (91%) received a "5" and 2 (9%) received a "4." Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again at the end of the 2012 Sp/Su semester. We do not see any decrease in student performance compared to prior years.		
2.2	Students will practice writing skills.	Radiation Biology and Protection paper	90% students will achieve a score of 80% or better on the Radiation Biology and Protection paper assignment of RAD 217.	Of the 26 papers submitted for this assignment, all received an 80% or better. Met Benchmark: This benchmark has been met and will be measured again at the end of the 2011 Fall semester. We do not see any decrease in student performance compared to prior years.		

	Goal 3: St	Goal 3: Students will critically think and effectively solve problems				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
3.1	Students will calculate correct exposure factors.	RAD 124 Exposure Maintenance Formula lab assignment	Students will score 90% or higher on the Effects of Distance on Density/Density Maintenance Formula lab activity.	3% (1) of the 28 students scored greater than 100; 54% (15) of the students scored between 90 – 100%; 36% (10) students scored between 80-89%; 7% (2) students failed the assignment. Did Not Meet Benchmark: 57% (16) scored above 90% on the exercise. The homework assignments and lecture materials will be reviewed and revised in order to focus on lab exercises.		
3.2.	Students will solve problems in the clinical setting.	Radiography Student Professional Skills Evaluation	90% of the completed Radiography Student Professional Skills Evaluations will rate the students with a "4" or better on a 1 to 5 Likert scale with "5" indicating strongly agrees, "4" agrees, "3" neither agrees nor disagrees, "2" disagrees, and "1" strongly disagrees on question 6, "The student is able to reason through a problem, taking into account all available information, in a manner similar to an entry-level staff member when taking images."	Of the 22 surveys returned, all 22 received a "4" or better; 19 (86%) received a "5" and 3 (14%) received a "4." Met Benchmark: This benchmark has been met for 2011 and will be measured again at the end of the 2012 Sp/Su semester. We do not see any decrease in student performance compared to prior years.		

	Goal 4: St	Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
4.1	Graduates will value the principles of life long learning.	Graduate Exit Survey	50% of second year students will indicate a desire to continue their education by responding to the statement, "Do you have plans to continue your education within the next 12 months?" on the Graduate Exit Survey.	Of the 19 responses from the Graduate Exit Survey 26% (5) of the students plan to continue at a 4-year institution; 47% (9) students plan to enter an advanced imaging modality; 21% (4) students were undecided; 5% (1) expressed no interest in earning a higher degree. Exceeded Benchmark. We will continue to provide students with information about continuing their education. It was decided to explore the possibility of developing certificate programs for CT and mammography.		
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co- Worker Communication and Cultural Diversity	90% of the students will achieve a score of 80% or better on the Patient/Co-Worker Communication and Cultural Diversity writing assignment for RAD 110.	Of the 25 papers submitted for this assignment, all received an 80% or better. Met Benchmark: This benchmark has been met and will be measured again at the end of the 2011 Fall semester. This was the second year that this student outcome was assessed. We will continue to assess the patient assessment skills exercises.		
4.3	Students will exhibit professional behaviors in the clinical setting.	RAD 240 Final Performance Evaluation	From the Final Clinical Performance Evaluation (Professional Mannerism section), 90% of students will achieve a performance rating of 10 points or above on a 0- to 20-point scale, with 20 points awarded for "Effective Performance," 10 points awarded for "Adequate Performance, but needs improvement," and 0 points for "Inadequate Performance" when the students' clinical instructors are asked if the student has the ability to display professionalism in the clinical setting.	Of the 25 evaluations, all 25 students achieve a performance rating of 10 or above on a 0-to-20-point scale; 24 (96%) achieved a performance rating of 20 out of 20 points. Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again at the end of the 2011 Sp/Su semester. We do not see any decrease in student performance compared to prior years.		

I	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
F l c	Graduates will pass the state licensure and/or certification for diagnostic radiography.	ARRT Annual Summary Report for Examination in Radiography	90% of the graduates will pass the National Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT) on the first attempt.	All 26 graduates passed the ARRT exam on the first attempt. Exceeded benchmark. Actions Taken: No actions taken This was a slight increase from 2009-2010.	
a e v p	Graduates who are seeking employment will obtain a position within 6 months of graduation.	Graduate Survey	90% of graduates will indicate that they have acquired an entry-level position as a radiographer and/or are continuing with their education by responding to the statement, "Select the statement below that best describes your job status" on the Graduate Exit Survey	Of the 19 students who responded to the Graduate Survey: 4 (21%) obtained a full-time job; 3 (16%) obtained a part-time job; 3 (16%) were currently interviewing for a part-time position; 4 (22%) wer interviewing for a full-time position; 2 (11%) were planning to leave MI; 1 (5%) did not plan to seek a position as a radiographer. A November 2011 follow-up employment survey by the program faculty reported the following results:	
				18 graduates were employed 1 graduate entered an MRI program 2 graduates were looking for employment 1 graduate is not seeking employment 4 graduates could not be located The November 2011 employment survey indicated that of the 20 graduates who were seeking employment 18 (90%) were employed and 2 (10) were still seeking employment. Met benchmark. Of the 20 students who were seeking employment 90% had obtained a job. Actions Taken: The employment rate of the graduated increased from the previous year, which	
				were still seeking employment. Met benchmark. Of the 20 students who seeking employment 90% had obtained	

	Program Effecti	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
3.	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. Measure will be based on program retention rates (i.e., number of students admitted to the program and the number of students who complete the program within two years.)	26 (81%) of the 32 students admitted (Class of 2011) to the program completed within the 2-year sequence. Exceeded benchmark. This is a slight increase from last year.		
4.	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey	90% of graduates will express satisfaction with the program by responding to the statement, "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?" on the Graduate Exit.	Of the 19 responses from the Graduate Exit Survey 100% (19) felt that the WCC Radiography Program prepared them for an entry-level position; 79% (15) strongly agree and 21% (4) student agreed. Exceeded Benchmark. Will continue to monitor.		
5.	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement in question 9, "If an entry-level position was open and this student was applying, you would hire this student."	Of the 22 surveys returned, all 22 received a "4" or better; 20 (91%) received a "5" and 2 (9%) received a "4." Meet benchmark for 2011. This benchmark has been met for 2011, and improvement over the 2008-2009 and 2009-2010 assessments. This metric will continue to be evaluated to determine if the results of this survey are stable or improve.		

X

PROGRAM ASSESSMENT REPORT

3.	Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. Please attach a summary of the data collected (as a separate document). See assessment report in question 3 above.
4.	For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. Please attach the rubric/scoring guide used for the assessment (as a separate document). See assessment report in question 3 above.
5.	Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results. Strengths: The students have consistently mastered the objectives of the didactic and clinical courses. Weaknesses: The were no areas of weakness noted in the student's achievement of the learning outcomes.
Ш	. Changes influenced by assessment results
	If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses. The results of the assessment indicated that there were fewer job opportunities in general radiology. In order to provide more employment opportunities, as well as career advancement/for the graduates we will develop certificate programs for mammography and computed tomography (CT).
	Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change. a. Outcomes/assessments from Program Assessment Planning or Program Proposal form: b. Program Curriculum:

3. What is the timeline for implementing these actions? We are tentatively planning to offer a certificate program in mammography and computed tomography in the Fall of 2012.

changes to existing program courses (specify):

course deletion course addition

other (specify):

c. \square Other (specify):

Print/Signature

IV. Future plans

- 1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.
 - The assessment tools were effective in demonstrating that the students are mastering the didactic and clinical courses. The assessment tools indicated a need for and student interest in advanced imaging modalities.
- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

3.	Which outcomes from Program Assessment Planning or Program Proposal form have been addressed in this report?
	All X Selected
	If "All", provide the report date for the next full review: November 2012.
	If "Selected", provide the report date for remaining outcomes:
	omitted by:
Nai	me: Connie FBTER Commi Fatte Date: 11/29/41
	Print/Signature
Dep	partment Chair: Muie 105 PER Comme Forte Date: 11/39/11
	Print/Signature
Dea	an: Martha A. Shawalter 11. Shoutts Date: 12/2/11

1. Ба	1. Dragger Assessed						
	1. Program Assessed Program name: Radiography program Program code: 143 APRAD						
	Division: HAT Department: ALHD						
	Type of Award: A.A. A.S. A.A.S. Adv. Cert. Post-Assoc. Cert. Cert. of Completion						
	2. Semester assessment was administered (check one): ☐ Fall 2009 ☐ Winter 2010 - ☐ Spring/Summer 2010						
	3. Assessment tool(s) used (check all that apply): ☐ Portfolio ☐ Standardized test ☐ Other external certification/licensure exam (please describe): ARRT radiography certification						
exam	 ☐ Graduate Survey ☐ Employer Survey ☐ Advisory Committee Survey ☐ Transfer follow-up ☐ Externally evaluated performance or exhibit ☐ Externally evaluation of job performance (internship, co-op, placement, other) ☐ Capstone experience (please describe): Radiation Biology & Protection paper ☐ Other (please describe): Final clinical performance evaluation; RAD 124 and 222 lab exercises 						
	 4. Have any of these tools been used before? 						
	If yes, has this tool been altered since its last administration? If so, briefly describe changes made.						
s	5. Indicate the number of students assessed/total number of students enrolled in the course. ~65 tudents						
tool	6. Describe how students were selected for the assessment. a. Describe your sampling method. all radiography students were assessed for each assessment						
1001	b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? all first and second year radiography students						

II. Results

- 1. If applicable, briefly describe the changes that were implemented in the program as a result of the previous assessment.
 - No major changes were made to the program. The assessment data indicated that there was no decrease in student performance as compared to prior years.
- 2. State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed.
 - Goal 1: Students will be clinically competent.
 - 1.1 Students will perform diagnostic radiographic procedures.
 - 1.2 Students will operate radiographic equipment.
 - 1.3 Students will demonstrate the ability to perform basic patient care assessment skills.
 - Goal 2: Students will communicate effectively both orally and in writing.
 - 2.1 Students will use effective oral communication skills in the clinical setting.
 - 2.2 Students will practice writing skills.
 - Goal 3: Students will critically think and effectively solve problems.
 - 3.1 Students will calculate correct exposure factors.
 - 3.2 Students will solve problems in the clinical setting.
 - Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.
 - 4.1 Graduates will value the principles of life long learning.
 - 4.2 Students will recognize the ethical and medical issues in patient care.
 - 4.3 Students will exhibit professional behaviors in the clinical setting.
 - Goal 5: Program Effectiveness Measures
 - 5.1 Graduates will pass the state licensure and/or certification for diagnostic radiography.
 - 5.2 Graduates who are seeking employment will obtain a position within 6 months of graduation.
 - 5.3 Students admitted to the program will successfully complete the program within the 2-year sequence
 - 5.4 Graduates will indicate that the program adequately prepared them for entry-level positions.
 - 5.5 Employers will indicate that the program graduates are adequately prepared for entry-level positions.

3. Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected*.

	Goal 1: Stu	Goal 1: Students will be clinically competent.				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions		
1.1	Students will perform diagnostic radiographic procedures.	RAD Student Professional Skills Evaluation	80% of the clinical sites who returned the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement "If an entrylevel position was open and this student was applying, you would hire this student."	Of the 18 surveys returned, 17 received a "4" or better (94%); 10 (56%) received a "5" and 7 (39%) received a 4, and 1 (5%) received a "3". No student received a "2" or "1." Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again at the end of the 2011 Sp/Su semester. We do not see any decrease in student performance compared to prior years.		
1.2	Students will operate radiographic equipment.	Competency Maintenance section of the Final Clinical Performance Evaluation.	On a sampling of the Final Performance Clinical Evaluation (Competency Maintenance section) 95% students will achieve a performance rating of 10 or above on a 0-to 20 point scale.	Of the 25 evaluations, all 25 students achieve a performance rating of 10 or above on a 0-to-20-point scale; 24 (96%) achieved a performance rating of 20 out of 20 points. Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again at the end of the 2011 Sp/Su semester. We do not see any decrease in student performance compared to prior years.		
1.3	Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 222 Patient Assessment Skills Check Out Form	On a sampling of the Patient Assessment Skills Check Out Form, 90% students will achieve passing grade on the venipuncture skills check out form.	Of the 41 students enrolled in RAD 222, 90% (37) of the students scored between 90% - 100%; 7% (3) students scored between 80%-89%; and 3% (1) failed. Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again during the 2011 Winter semester.		

	Goal 2: Stu	Goal 2: Students will communicate effectively both orally and in writing.			
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
2.1	Students will use effective oral communication skills in the clinical setting.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement "The student communicates with patients in a manner that you would expect/require of entry-level radiology staff member."	Of the 18 surveys returned, all 18 received a "4" or better; 13 (72%) received a "5" and 5 (28%) received a "4." Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again at the end of the 2011 Sp/Su semester. We do not see any decrease in student performance compared to prior years.	
2.2	Students will practice writing skills.	Radiation Biology and Protection paper	On a random sampling of the Radiation Biology and Protection paper assignment of RAD 217, 90% students will achieve a score of 80% or better	Of the 25 papers submitted for this assignment, all received an 80% or better. Met Benchmark: This benchmark has been met and will be measured again at the end of the 2010 Fall semester. We do not see any decrease in student performance compared to prior years.	

	Goal 3: Students will critically think and effectively solve problems				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
3.1	Students will calculate correct exposure factors.	RAD 124 Exposure Maintenance Formula lab assignment	Students will score 90% or higher on the Effects of Distance on Density/Density Maintenance Formula lab activity.	15% (5) of the 33 students scored greater than 100; 64% (21) of the students scored between 90 – 100%; 12% (4) students scored between 80-89%; 9% (3) students failed the assignment. Met Benchmark: This was the first year that this student outcome was assessed. This tool confirmed the student's understanding of exposure factors. We will continue to assess the patient assessment skills exercises	
3.2.	Students will solve problems in the clinical setting.	Radiography Student Professional Skills Evaluation	90% of the completed Radiography Student Professional Skills Evaluations will rate the students with a 4 or 5 on item 6, "The student is able to reason through a problem, taking into account all available information, in a manner similar to an entry-level staff member when taking images."	Of the 18 surveys returned, 17 (94%) received a "4" or better; 10 (56%) received a "5," 7 (39%) received a "4," and 1 (5%) received a "3." Met Benchmark: This benchmark has been met for 2010 and will be measured again at the end of the 2010 Sp/Su semester. We do not see any decrease in student performance compared to prior years.	

	Goal 4: Students will exhibit professional values, attitudes, behaviors, and ethics.			
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions
4.1	Graduates will value the principles of life long learning.	Graduate Exit Survey	50% of second year students will indicate a desire to continue their education by responding to the statement, "Do you have plans to continue your education within the next 12 months?" on the Graduate Exit Survey.	Of the 16 responses from the Graduate Exit Survey 12.5% (2) of the students plan to continue at a 4-year institution; 50% (8) students plan to enter an advanced imaging modality; 25% (4) students were undecided; 12.5% (2) expressed no interest in earning a higher degree. Exceeded Benchmark. We will continue to provide students with information about continuing their education.
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co- Worker Communicati on and Cultural Diversity	On a random sampling of the RAD 110 writing assignment, 90% of the students will achieve a score of 80% or better.	Of the 28 papers submitted for this assignment, all received an 80% or better. Met Benchmark: This benchmark has been met and will be measured again at the end of the 2010 Fall semester. This was the first year that this student outcome was assessed. We will continue to assess the patient assessment skills exercises.
4.3	Students will exhibit professional behaviors in the clinical setting.	RAD 240 Final Performance Evaluation	90% of the students will receive an "effective performance" on question 6, "Professional Mannerism – the ability to display professionalism in the clinical setting."	Of the 25 evaluations, all 25 students achieve a performance rating of 10 or above on a 0-to-20-point scale; 24 (96%) achieved a performance rating of 20 out of 20 points. Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again at the end of the 2010 Sp/Su semester. We do not see any decrease in student performance compared to prior years.

	Program Effectiveness Measures:				
	Student Outcomes	Assessment Tool	Benchmark	Results/Actions	
1.	Graduates will pass the state licensure and/or certification for diagnostic radiography.	ARRT Annual Summary Report for Examination in Radiography	90% of the graduates will pass the National Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT) on the first attempt.	22 (92%) of the 24 graduates have taken the ARRT exam. 21 (96%) of the 22 students passed on the first attempt. (The one student who failed the ARRT exam on the first attempt passed on the second attempt. To date 22 (100%) of the graduates have passed the ARRT exam. 2 (8%) of the 24 graduates have not yet taken the ARRT exam. Exceeded benchmark. Actions Taken: No actions taken There was a slight increase from 2008-2009.	
2.	Graduates who are seeking employment will obtain a position within 6 months of graduation.	Graduate Survey	90% of graduates will indicate that they have acquired an entry-level position as a radiographer and/or are continuing with their education by responding to the statement, "Select the statement below that best describes your job status" on the Graduate Exit Survey		
3.	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. Measure will be based on program retention rates (i.e., number of students admitted to the program and the number of students who complete the program within two years.)	24 (75%) of the 32 students admitted (Class of 2010) to the program completed within the 2-year sequence. Exceeded benchmark. However, this was a decrease in the completion rate from last year (81%). Retrospective analysis of student completion rates showed an increase in student withdrawal because of financial reasons. This is most likely due to the Michigan economy.	

4.	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey	90% of graduates will express satisfaction with the program by responding to the statement, "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?" on the Graduate Exit.	Of the 16 responses from the Graduate Exit Survey 100% (16) felt that the WCC Radiography Program prepared them for an entry-level position; 93.75% (15) strongly agree and 6.25% (1) student agreed. Exceeded Benchmark. Will continue to monitor.
5.	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation	80% of clinical sites who return the Washtenaw Community College Radiography Program Radiography Student Professional Skills Evaluation will give students finishing RAD 240 a "4" or better on a 1 to 5 Likert scale when responding to the statement "If an entrylevel position was open and this student was applying, you would hire this student."	2010: Of the 18 surveys returned, 16 (89%) received a "4" or better; 9 (50%) received a "5," 7 (40%) received a "4," 1 (5%) received a "3," and 1 (5%) received a "2." Meet benchmark for 2010. This benchmark has been met for 2010, and improvement over the 2008-2009 assessment. This metric will continue to be evaluated to determine if the results of this survey are stable or improve.

- 4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric*/scoring guide used for the assessment. see chart above in question 3
- 5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: We did not see any decrease in student performance compared to prior years.

Weaknesses: Although we did not find any weaknesses, Two areas of concern were raised. The first concern was the completion rate and the second was the job placement rates.

III. Changes influenced by assessment results

- 1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
 - The Michigan economy is still in a state of flux, so we will reduce the student admission from 34 to 32. We will include a discussion on barriers to completing the radiography program as an agenda item for the next new student orientation.
- 2. Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change.

c. Other (specify):

3. What is the timeline for implementing these actions?

other (specify):

X

X

IV. Future plans

1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.

The assessment tools were effective in measuring student achievment of learning outcomes.

- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.
- 3. Which outcomes from Program Assessment Planning or Program Proposal form have been addressed in this report?

 All _X____ Selected _____

If "All", provide the report date for the next full review: Fall 2012

If "Selected", provide the report date for remaining outcomes:

Submitted by:

Name: Connie Foster

Print/Signature

Department Chair:

Print/Signature

Print/Signature

Date: November 23, 2010

Date: 1/3//0

Date: 23//0

I.	Background Information
	1. Program Assessed Program name: Radiography Program code: RAD APRAD Division: HAT Department: Allied Health Department
	Type of Award: A.A. A.S. A.A.S. A.A.S. Cert. Cer
	 2. Semester assessment was administered (check one): Fall 2007 Winter 2008 Spring/Summer 2008
	3. Assessment tool(s) used (check all that apply): Portfolio Standardized test Other external certification/licensure exam (please describe): Graduate Survey Employer Survey Advisory Committee Survey Transfer follow-up Externally evaluated performance or exhibit Externally evaluation of job performance (internship, co-op, placement, other) Capstone experience (please describe): Other (please describe): Clinical performance evaluations; Professional Skills evaluations; course
ev	4. Have any of these tools been used before? Yes (if yes, identify which tool) No
	If yes, has this tool been altered since its last administration? If so, briefly describe changes made.
	5. Indicate the number of students assessed/total number of students enrolled in the course. 32 first year radiography students; 37 second year radiography students
	6. Describe how students were selected for the assessment. a. Describe your sampling method. all program students b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? all program students
II. 1.	Results If applicable, briefly describe the changes that were implemented in the program as a result of the previous assessment. see attached report
2.	State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed. see attached

3.	Briefly describe assessment results based on data collected during the program assessment, demonstrating
	the extent to which students are achieving each of the learning outcomes listed above. Please attach a
	summary of the data collected.
	see attached

- 4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment*. see attached
- 5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: Radiograph program students are successfully passing the ARRT national board exam and obtaining jobs after graduation.

Weaknesses:

III. Changes influenced by assessment results

- 1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
- 2. Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change.
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ь. 🔲	Program Curriculum:
	course sequencing
	course deletion
	course addition
	Changes to existing program courses (specify): see attached report
	other (specify):
с. П	Other (specify):

3. What is the timeline for implementing these actions? changes will be made starting in the winer 2009 semester.

IV. Future plans

- 1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.
 - The tools were effective in confirming that the radiography students are passing the ARRT national board exam and obtaining jobs.
- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.
- 3. Which outcomes from Program Assessment Planning or Program Proposal form have been addressed in this report?

All x Selected	
If "All", provide the report date for the next full review:Winter 2009	۳.
If "Selected", provide the report date for remaining outcomes:	

Submitted by:	\cap \cap		
Name: Myje FBIER	Connei Joste	Date:	1/9/89
Print/Signature Department Chair: Conce	FOSTER Commen South	Date:	1/9/09
Dean: Print/Signature	1. for	Date:	1/12/09
Print/Signature			

WASHTENAW COMMUNITY COLLEGE PROGRAM ASSESSMENT REPORT: 2006 –2007 RADIOGRAPHY PROGRAM

ı. E	sackground Information
	1. Program Assessed
	Program name: Radiography Program
	Program code: PAD APRAD
	Division: HAT Department: ALHD
	•
	Type of Award: A.A. A.S. A.A.S. A.A.S. Cert. Post-Assoc. Cert. Cert. of Completion
	2. Semester assessment was administered (check one): Fall 2006 Winter 2007 Spring/Summer 2007
	3. Assessment tool(s) used (check all that apply): ☐ Portfolio ☐ Standardized test ☐ Other external certification/licensure exam (please describe): ARRT Radiography
Exa	_ , , , , , , , , , , , , , , , , , , ,
	☐ Graduate Survey ☐ Advisory Committee Survey ☐ Transfer follow-up ☐ Externally evaluated performance or exhibit ☐ Externally evaluation of job performance (internship, co-op, placement, other) ☐ Capstone experience (please describe): ☐ Other (please describe): See attached 2006-2007 Radiography Assessment Report
	4. Have any of these tools been used before? X Yes (if yes, identify which tool) No
	If yes, has this tool been altered since its last administration? If so, briefly describe changes made. NO
	5. Indicate the number of students assessed/total number of students enrolled in the course.
	6. Describe how students were selected for the assessment. a. Describe your sampling method. radom sample of students were assessed. b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? continuing radiography students and graduates
TT	Results
1.	If applicable, briefly describe the changes that were implemented in the program as a result of the previous assessment.
2.	State each outcome (verbatim) from the Program Assessment Planning or Program Proposal form for the program that was assessed. see attached 2006-2007 Radiography Assesment Report

WASHTENAW COMMUNITY COLLEGE PROGRAM ASSESSMENT REPORT: 2006 –2007 RADIOGRAPHY PROGRAM

- 3. Briefly describe assessment results based on data collected during the program assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. Please attach a summary of the data collected.

 see attached 2006-2007 Radiography Assessment Report
- 4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubris*/scoring guide used for the assessment. see atached 2006 2007 Radiography Assessment Report
- 5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: Overall, the radiography program has exceeded it's established benchmarks. The students are acquiring the knowledge and skills to become competent radiographers. The local healthcare facilities continue to employ our graduates.

Weaknesses: A few of Some of the students continue to score low on the standardized exams. However, the data shows that they get progressively better after each test.

III. Changes influenced by assessment results

- If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
 The PAS standardized exams will be a requirement for RAD 217.
- 2. Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Describe changes and give rationale for change.

a. Outcomes/assessments from Program Assessment Planning or Program Proposal form: A new assessment tool will be developed to measure the outcomes 3 - 6 under goal 2.

	b. Program Curriculum:
	course sequencing
	course deletion
	course addition
	A changes to existing program courses (specify): RAD 218 final exam questions will be
revised	
	other (specify):
	c. Other (specify):

3. What is the timeline for implementing these actions? Changes will be implemented during the 2007 - 2008 academic year.

IV. Future plans

- 1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this program.
 - Overall, the assessment tools were effective is measuring the effectiveness of the radiography program. The results of the 2006 2007 assessment shows that the radiography students are acquiring the knowledge and skills to be competent radiographers.
- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments. The Final Clinical Performance Evaluation did not provide any discriminating feedback. A Clinical Instructor Survey will be developed for next year.
- 3. Which outcomes from Program Assessment Planning or Program Proposal form have been addressed in this report?

All X	Selected	

WASHTENAW COMMUNITY COLLEGE PROGRAM ASSESSMENT REPORT: 2006 –2007 RADIOGRAPHY PROGRAM

If "All", provide the report date for the next full review: see attached 2006-2007 Radiography Assessment Report.

Submitted by:

Name: Connie Foster Date: 1/2/107

Print/Signature

Department Chair: Connie Foster Date: 1/3/10.7

Print/Signature

Dean: Print/Signature