







PROGRAM ASSESSMENT REPORT

<b>Goal 2: Students will communicate effectively both orally and in writing.</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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."	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.  <i>Exceeded benchmark</i>
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 six student papers were evaluated. All 26 (100%) received a score above 80%--the high score was 100% and the low score was 80%.  <i>Exceeded benchmark</i>

<b>Goal 3: Students will critically think and effectively solve problems</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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.  <i>Exceeded benchmark</i>
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  <i>Exceeded benchmark</i>

PROGRAM ASSESSMENT REPORT

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.  <i>Exceeded Benchmark.</i> <i>Of the 2012 graduates, 4 students were admitted to the Mammography program and 4 students were admitted to the CT program.</i>
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%.  <i>Exceeded benchmark</i>
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.  <i>Exceeded benchmark</i>

PROGRAM ASSESSMENT REPORT

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 1 <sup>st</sup> attempt of the National Radiography Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT).	<table border="1"> <thead> <tr> <th>Year</th> <th># Candidates</th> <th>% Pass</th> </tr> </thead> <tbody> <tr> <td>2008</td> <td>29</td> <td>96.6%</td> </tr> <tr> <td>2009</td> <td>37</td> <td>97.3%</td> </tr> <tr> <td>2010</td> <td>24</td> <td>95.8%</td> </tr> <tr> <td>2011</td> <td>27</td> <td>100%</td> </tr> <tr> <td>2012</td> <td>22</td> <td>100%</td> </tr> </tbody> </table> <p>5-year pass rate: 97.9%</p> <p><i>Exceeded benchmark</i></p>	Year	# Candidates	% Pass	2008	29	96.6%	2009	37	97.3%	2010	24	95.8%	2011	27	100%	2012	22	100%
Year	# Candidates	% Pass																				
2008	29	96.6%																				
2009	37	97.3%																				
2010	24	95.8%																				
2011	27	100%																				
2012	22	100%																				
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 than 75% within 6 months of graduation.	<table border="1"> <thead> <tr> <th>Year</th> <th>% Employment Rate</th> </tr> </thead> <tbody> <tr> <td>2008</td> <td>79%</td> </tr> <tr> <td>2009</td> <td>82%</td> </tr> <tr> <td>2010</td> <td>70%</td> </tr> <tr> <td>2011</td> <td>90%</td> </tr> <tr> <td>2012</td> <td>80%</td> </tr> </tbody> </table> <p>5-year average job placement rate: 80%</p> <p><i>Exceeded benchmark</i></p>	Year	% Employment Rate	2008	79%	2009	82%	2010	70%	2011	90%	2012	80%						
Year	% Employment Rate																					
2008	79%																					
2009	82%																					
2010	70%																					
2011	90%																					
2012	80%																					
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.)	<p>22 (69%) of the 32 students admitted (Class of 2012) to the program completed within the 2-year sequence.</p> <p>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.</p>																		
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.	<p>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.</p> <p><i>Exceeded benchmark</i></p>																		
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."	<p>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.</p> <p><i>Exceeded benchmark</i></p>																		

**PROGRAM ASSESSMENT REPORT**

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.

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):
- other (specify):

c.  Other (specify):

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 student achievement of learning outcomes for this program.

The assessment tools were successful in identifying the strengths and weaknesses of the radiography program.

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  Selected \_\_\_\_\_

If "All", provide the report date for the next full review: Fall 2013

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

PROGRAM ASSESSMENT REPORT

Submitted by:

Name: Connie Foster *Connie Foster* Date: 1/11/13  
Print/Signature  
Department Chair: Connie Foster *Connie Foster* Date: 1/11/13  
Print/Signature  
Dean: Martha Showalter *Martha Showalter* Date: 1/15/13  
Print/Signature

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



PROGRAM ASSESSMENT REPORT

**I. Background Information**

1. Program Assessed

Program name: Radiography Program

Program code: APRAD

Division: Math, Science, and Health

Department: Allied Health Department

Type of Award:  A.A.       A.S.       A.A.S.  
 Cert.       Adv. Cert.       Post-Assoc. Cert.       Cert. of Completion

2. Semester assessment was administered (check one):

- Fall 2010
- Winter 2011
- Spring/Summer 2011

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 second year radiography students and 28 first year radiography students

6. Describe how students were selected for the assessment.

- a. Describe your sampling method. All first and second year radiography students were included in the assessments.
- b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? The entering (1st year) and graduating (2nd 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.

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.

PROGRAM ASSESSMENT REPORT

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.~~

X

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.

PROGRAM ASSESSMENT REPORT

Annual Assessment Report  
Radiography program 2010 – 2011 Academic Year

<b>Goal 1: Students will be clinically competent.</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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.  <i>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.</i>
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."  <i>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.</i>
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.  <i>Exceeded Benchmark: This benchmark has been met for 2011 and will be measured again during the 2012 Winter semester.</i>

PROGRAM ASSESSMENT REPORT

<b>Goal 2: Students will communicate effectively both orally and in writing.</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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."  <i>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.</i>
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.  <i>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.</i>

<b>Goal 3: Students will critically think and effectively solve problems</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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.  <i>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.</i>
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."  <i>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.</i>

PROGRAM ASSESSMENT REPORT

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.  <i>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.</i>
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.  <i>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.</i>
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.  <i>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 ASSESSMENT REPORT

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.	<p>All 26 graduates passed the ARRT exam on the first attempt.</p> <p><i>Exceeded benchmark. Actions Taken: No actions taken</i></p> <p><i>This was a slight increase from 2009-2010.</i></p>
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	<p>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%) were 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.</p> <p>A November 2011 follow-up employment survey by the program faculty reported the following results:</p> <p>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</p> <p>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.</p> <p><i>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 is due to the slight increase in the Michigan economy. We will continue to discuss the employment outlook with our Advisory Committee.</i></p>

PROGRAM ASSESSMENT REPORT

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.  <i>Exceeded benchmark. This is a slight increase from last year.</i>
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.  <i>Exceeded Benchmark. Will continue to monitor.</i>
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."  <i>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.</i>

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: There were no areas of weakness noted in the student's achievement of the learning outcomes.

**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 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).

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):

other (specify):

c.  Other (specify):

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.



PROGRAM ASSESSMENT REPORT

**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  Selected

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

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

**Submitted by:**

Name: Connie FOSTER Connie Foster Date: 11/29/11  
Print/Signature  
 Department Chair: Connie FOSTER Connie Foster Date: 11/29/11  
Print/Signature  
 Dean: Martha A. Shawalter M. Shawalter Date: 12/2/11  
Print/Signature

*Please return completed form to the Office of Curriculum & Assessment, SC 247.*

PROGRAM ASSESSMENT REPORT

I. Background Information

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.  
 Cert.  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?

- Yes (if yes, identify which tool); all tools except RAD 124 & 222 lab exercises
- No RAD 124 & 222 lab exercises

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. ~65 students

6. Describe how students were selected for the assessment.

- a. Describe your sampling method. all radiography students were assessed for each assessment tool
- b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? all first and second year radiography students

**PROGRAM ASSESSMENT REPORT**

**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. x
    - 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. x
    - 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.

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.*

<b>Goal 1: Students will be clinically competent.</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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 entry-level 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."  <i>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.</i>
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.  <i>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.</i>
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.  <i>Exceeded Benchmark: This benchmark has been met for 2010 and will be measured again during the 2011 Winter semester.</i>

PROGRAM ASSESSMENT REPORT

<b>Goal 2: Students will communicate effectively both orally and in writing.</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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."  <i>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.</i>
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.  <i>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.</i>

<b>Goal 3: Students will critically think and effectively solve problems</b>				
	<b>Student Outcomes</b>	<b>Assessment Tool</b>	<b>Benchmark</b>	<b>Results/Actions</b>
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.  <i>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</i>
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."  <i>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.</i>

PROGRAM ASSESSMENT REPORT

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.  <i>Exceeded Benchmark. We will continue to provide students with information about continuing their education.</i>
4.2	Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co-Worker Communication 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.  <i>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.</i>
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.  <i>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.</i>

PROGRAM ASSESSMENT REPORT

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.	<p>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.</p> <p><i>Exceeded benchmark. Actions Taken: No actions taken                      There was a slight increase from 2008-2009.</i></p>
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	<p>Of the 16 students who responded to the Graduate Survey: 3 (19%) obtained a full-time job; 1 (6%) obtained a part-time job; 6 (38%) were currently interviewing for a part-time position; 2 (13%) were interviewing for a full-time position; 2 (13%) were planning to leave MI; 2 (13%) did not plan to seek a position as a radiographer.</p> <p>A November 2010 survey of the 22 graduates who passed the ARRT exam found:</p> <p>2 students were not seeking employment.                      Of the remaining 20 students:</p> <p>14 (70%) were employed                      2 (20%) were looking for employment                      2 (10%) could not be located</p> <p><i>Did not exceed benchmark. Actions Taken: Reduce the number of students admitted to the program from 34 to 32 students. The drop in employment is due to the economical problems in Michigan. We will continue to discuss the employment outlook with our Advisory Committee.</i></p>
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.)	<p>24 (75%) of the 32 students admitted (Class of 2010) to the program completed within the 2-year sequence.</p> <p><i>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.</i></p>

PROGRAM ASSESSMENT REPORT

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.  <i>Exceeded Benchmark. Will continue to monitor.</i>
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 entry-level 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."  <i>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.</i>

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.

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?



PROGRAM ASSESSMENT REPORT

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 achievement 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 Date: November 23, 2010

Print/Signature

Department Chair: Connie Foster Date: 11/23/10

Print/Signature

Dean: [Signature] Date: 11/23/10

Print/Signature

Please return completed form to the Office of Curriculum & Assessment, SC 247.

**PROGRAM ASSESSMENT REPORT**

**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.  
 Cert.       Adv. Cert.       Post-Assoc. Cert.       Cert. of Completion

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 evaluations;

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.  
 no

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. Results**

1. 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

**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.***  
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.
  - a.  Outcomes/assessments from Program Assessment Planning or Program Proposal form: A patient assessment skill check out form will be developed for RAD 222 to track patient assessment skills..
  - b.  Program Curriculum:
    - course sequencing
    - course deletion
    - course addition
    - changes to existing program courses (specify): see attached report
    - other (specify):
  - c.  Other (specify):
3. What is the timeline for implementing these actions? changes will be made starting in the winter 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  Selected \_\_\_\_\_  
If "All", provide the report date for the next full review: \_\_\_ Winter 2009 \_\_\_\_\_.  
If "Selected", provide the report date for remaining outcomes: \_\_\_\_\_.

PROGRAM ASSESSMENT REPORT

Submitted by:

Name: Connie Foster Connie Foster Date: 1/9/09  
Print/Signature  
Department Chair: Connie Foster Connie Foster Date: 1/9/09  
Print/Signature  
Dean: J. P. W. [Signature] Date: 1/12/09  
Print/Signature

*Please return completed form to the Office of Curriculum & Assessment, SC 247.*

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

**I. Background Information**

1. Program Assessed

Program name: Radiography Program

Program code: ~~RAD~~ APRAD

Division: HAT

Department: ALHD

Type of Award:  A.A.       A.S       A.A.S.  
 Cert.       Adv. 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

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):  
 Other (please describe): See attached 2006-2007 Radiography Assessment Report

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.  
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. random sample of students were assessed.  
b. Describe the population assessed (e.g. graduating students, alumni, entering students, continuing students)? continuing radiography students and graduates

**II. 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 Assessment Report

7

**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 rubric/scoring guide used for the assessment.***  
see attached 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

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 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

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  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.

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

Submitted by:

Name: Connie Foster *Connie Foster* Date: 11/21/07  
Print/Signature  
Department Chair: Connie Foster *Connie Foster* Date: 11/21/07  
Print/Signature  
Dean: [Signature] Date: 11/26/07  
Print/Signature

**Please return completed form to the Office of Curriculum & Assessment, SC 247.**

*logged 11/26/07 sjb*