

2009 Assessment Plan
Aultman Hospital School of Radiology

Mission: The Aultman Hospital School of Radiologic Technology is committed to the quality education of radiology technology students. The school is dedicated to educating the students to become competent radiologic technologists, while providing them with the opportunity for professional growth. The school is responsible for providing the education requires to take the American Registry of Radiologic Technologists (ARRT) exam.

Goal 1 : Students will be clinically competent.

Outcomes	Measurement Tool	Benchmark	Time Frame	Person/Group Responsible	Results	Actions	Action Plan for Unmet Criteria
Students will apply positioning skills.	A. Clinical Performance Evaluation Form #202, Question #3 – Random Sampling of two evaluations per student	The average response to Q#3 (positions accurately and manipulates equipment) will be \geq 92.5% (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of Semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Measures will be taken to review positioning or equipment manipulation with each student who receives an unsatisfactory grade.
	B. Radiographic Procedures III RAD134-Comprehensive Final grade	The average score of each student will be \geq 80% (100-point scale).	1st Year, 3rd Semester	Course Instructor	Average Score 91%	Student will be at the third level of procedure skills in RAD 134. This will present a nice base assessment prior to students' entry into second year.	Benchmark met. Results for CL09-85% and CL10-91%. In 2009, the instructor and clinical coordinator worked together to coordinate the positioning labs with the didactic instruction which could have attributed to the increase in the average for the past year, will continue to monitor benchmark, and design a review for each student who receives a grade below 80%. A specific question will be selected from the RAD134 Comprehensive Final as the measuring tool for the 2010 IAP(Institutional Assessment Plan).
Student will select appropriate technical factors	C. Physics III, PHY102, Test # 3 Radiographic Exposures	The average score of each student will be \geq 80% (100-point scale).	2nd Year, 4th Semester	Course Instructor	Average Score 92%	Students learn to apply appropriate techniques in the clinical area and in theory through their different course path.	Benchmark met. Results for CL09-86% and CL10-92%. In 2009, the instructor changed for this course which could have attributed to the overall average of each student increasing. Will continue to trend the grades for CL11, and create a review for each student who receives below 80%. A specific question from the Radiographic Exposures test will be selected as the measuring tool for the 2010 IAP.
	D. Clinical Performance Evaluation Form #202, Question #8 – Random Sampling of two evaluations per student	The average response to Q#8 (determines correct exposure factors) will be \geq 92.5% (100-point scale).	1st year, 1st semester and 2nd Year, 4th semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. In 2009, each student was required to prepare lab notes which include manual technique for each procedure. The clinical coordinator will continue to evaluate each student's lab notes for the correct technique. Steps will be taken to review technique with each student who receives an unsatisfactory grade in determining correct exposure factors.

2009 Assessment Plan
Aultman Hospital School of Radiology

Students will practice radiation protection.	E. Clinical Performance Evaluation Form #202, Question #7 – Random Sampling of two evaluations per student	The average response to Q#7 (applies appropriate radiation protection) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 100% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Measures will be taken to review radiation protection policies with each student who receives an unsatisfactory grade.
	F. Physics I PHY 118 - Radiation Bio/Protection (Test #1)	The average score of each student will be $\geq 80\%$ (100-point scale).	1st Year, 1st Semester	Course Instructor	Average Score 82% (n=17) CL11	Radiation protection and safety is introduced didactically, and radiation protection is practiced throughout clinical education (also taught in future courses).	Benchmark met. Results for CL10-86.73% and CL11-82%. In 2009, five students received below a 80% and two CL11 students withdrew prior to the end of the semester. Another Physics instructor provided remedial instruction to the entire CL11 class prior to the final exam in the PHY 118 course. In addition, the Physics instructor for PHY 128 offered tutoring to the remaining 15 students of CL11 and all of them participated in several weeks of Physics review during the 2010 spring semester. A specific question will be selected from the Radiation Protection Section of the Assessment Test #5 as the measuring tool for the 2010 IAP.

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Goal 2 : Students will communicate effectively.

Outcomes	Measurement Tool	Benchmark	Time Frame	Person/Group Responsible	Results	Actions	Action Plan for Unmet Criteria
Students will use effective oral communication skills in clinical environment.	G. Clinical Performance Evaluation Form #202, Question #5 – Random Sampling of two evaluations per student	The average response to Q#5 (uses appropriate verbal communication) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Each student's verbal communication skills will continue to be evaluated and offered feedback during lab simulations to prepare the student to use effective skills in the clinical environment. In addition, further instruction in effective verbal communication skills will be provided for any student who receives an unsatisfactory grade.
	H. Critical Thinking Course Skit Presentation RAD 114	The average score of each student will be $\geq 80\%$ (100-point scale).	2nd Year, 5th Semester	Course Instructor	Average Score 97% CL09 (n=11)	This course introduces case studies to stimulate critical thinking theory for the clinical environment.	Benchmark met. Results for CL09-97% Each skit presentation involves a simulated recorded patient care scenario which is presented to the class. The instructor assesses each student's verbal skills and completes an evaluation which is reviewed with each student. The instructor will provide further instruction in effective verbal communication skills for each student who receives a grade of below 80%. A specific question regarding oral communication skills from the grading rubric for the RAD114 Course Skit Presentation will be selected as the measuring tool for the 2010 IAP.
Students will practice written communication skills.	I. Clinical Performance Evaluation Form #202, Question #6 – Random Sampling of two evaluations per student	The average response to Q#6 (demonstrates proper written communication skills) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Each student who receives an unsatisfactory grade will receive additional instruction regarding the proper documentation of the patient's clinical history.
	J. Introduction to Special Areas RAD 133, Written Presentation	The average score of each student will be $\geq 80\%$ (100-point scale).	1st Year, 3rd Semester	Course Instructor	Average score of 97% (n=11). CL10	Students are given special procedures to research, write and present orally.	Benchmark met. Results for CL10-97% and will continue to trend with the CL11. Each student who receives less than a 80% will be advised of how to improve their writing skills. In addition, a specific question regarding written communication skills will be selected from the RAD133 Course Written Presentation to as the measuring for the 2010 IAP.

2009 Assessment Plan
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Goal 3: Students will use critical thinking and problem solving skills.

Outcomes	Measurement Tool	Benchmark	Time Frame	Person/Group Responsible	Results	Actions	Action Plan for Unmet Criteria
Students will manipulate technical factors for non-routine examinations.	K. Clinical Performance Evaluation Form #202A/W, Question #8 – Random Sampling of one evaluation per student	The average response to Q#8 (determines correct exposure factors for the trauma/difficult patients) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Students manipulate technical factors for non-routine examinations during lab simulations as preparation for the clinical environment. Each student who receives an unsatisfactory grade will be instructed further regarding determining the correct exposure factors for non-routine examinations.
	L. Physics II, PHY101, Grids Test (Test #3)	The average score of each student will be $\geq 80\%$ (100-point scale).	2nd Year, 4th Semester	Course Instructor	Average score of 78% (n=11). CL10	Students apply critical thinking skills in terms of selecting techniques for non routine exams with grid use (portables, trauma).	Benchmark not met. Results for CL09-88.45% and CL10 78%. Six CL10 students received a score of below 80%, so the instructor offered a review prior to the final examination in the course, and will continue review with each student who receives a grade of below 80%. A specific question from the PHY101 Grids Test will be selected as the measuring tool for the 2010 IAP.
Students will adapt positioning for trauma patients..	M. Clinical Performance Evaluation Form #202A/W, Question #3 – Random Sampling of one evaluations per student	The average response to Q#3 (modifies positioning for the trauma patient) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Any student receiving an unsatisfactory grade will be evaluated through a simulated patient trauma case in the lab environment.
	N. Radiographic Procedures IV-244 Trauma Unit Test	The average score of each student will be $\geq 80\%$ (100-point scale).	2nd Year, 4th Semester	Course Instructor	Benchmark met. Average score of 89% (n=11). CL10	Students learn trauma positioning, alternate views, techniques changes, patient care skills, pathology and processes within the skeletal system that may be present in trauma situations.	Benchmark met. Results for CL10-89% and will continue to trend with the CL11. Although the benchmark was met, one student received a score of 78% which was reviewed with the student by the instructor. A specific question from the RAD244 Radiographic Procedures IV Course Trauma Unit Test will be selected as the measuring tool for the 2010 IAP.

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Goal 4: Students will evaluate the importance of professional growth and development.

Outcomes	Measurement Tool	Benchmark	Time Frame	Person/Group Responsible	Results	Actions	Action Plan for Unmet Criteria
Students will demonstrate professional behavior.	O. Clinical Performance Evaluation Form #202, Question #10 – Random Sampling of two evaluations per student	The average response to Q#10 (practices clinical professionalism) will be $\geq 92.5\%$ (100-point scale).	1st year, 1st Semester, and 2nd Year, 4th Semester	Clinical Coordinator	Average Score 99% CL10 (n=11) CL11 (n=15)	Clinical Instructors evaluate student performance on a weekly basis. Students are formally evaluated with feedback at mid-term and end of semester.	Benchmark met. In 2009, the Performance Evaluation Form #202 was updated to reflect a satisfactory/unsatisfactory grading system. Policies regarding clinical professionalism will be reviewed with each student who receives an unsatisfactory grade.
Students will understand appropriate ethical decisions.	P. Methods of Patient Care I, RAD104, Test 5.	The average score of each student will be $\geq 80\%$ (100-point scale).	1st Year, 1st Semester	Course Instructor	Average score of 82% (n=15). CL11	Students learn law and ethics within the Patient Care course series. Written exam tests their knowledge of theory. Clinical education is evaluated for ethical behavior.	Benchmark met. Results for CL11-82%. Although the benchmark was met, four students received a grade of below 80%. The test was reviewed with each student by the instructor as well as a review exercise covering appropriate ethical decisions was given prior to the final semester examination. In addition, the instructor sent other power point presentations regarding ethical decisions to each CL11 student by email, so that they would have additional resources to review prior to the beginning of the Assessment Testing which will begin in the fall of 2010. A specific question from the RAD114- Critical Thinking Course Ethical Decision Assignment will be selected as the measuring tool for the 2010 IAP.

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Program Effectiveness Measures

Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results	Actions	Action Plan for Unmet Criteria
Students will pass the ARRT national certification on the 1 st attempt.	ART national certification test	≥ 90% (1st attempt)	Send annually in December.	Program Director	100% pass rate on the 1st attempt CL09 (n=11)	Students will take the ARRT certificate exam after successfully completing the Radiology Program. Students will pass the ARRT exam on the first attempt.	Benchmark met for the past six years. Although the benchmark has been met for the past five years, remedial work and resources in any five categories of the ARRT exam will be made available to each student that does not pass on the first attempt. In addition, the Program Director implemented earlier Assessment Testing for each student in 2008 which could have attributed to the current benchmark being met.
Students will be employed as radiographers.	Graduate Survey (Question 19)	75% of graduates will be employed within six months of graduation.	Send annually in December.	Program Director	As of 2.26.2010, 73% of CL09 graduates are employed as radiographers.	Students will be employed as radiographers within six months of graduation. Graduate surveys will monitor the employment rate of the graduates.	Benchmark not met in 2009 due to local economy. Benchmark was met in 2008. Surveys will be collected from graduates within six months of graduation. With less than a 75% employment rate, the job market will be monitored by the Program Director and graduates will be contacted through email for job opportunities.
Students who enroll will complete the program.	Retention Rate	75% of students enrolled in the program will complete the program.	End of Program	Program Director	100% CL09 (n=11)	Program Director evaluates the retention rate.	Benchmark met. Results for CL05-92% CL06-88% CL07-93% CL08-80% and CL09 100%. Although the benchmark has been met for the past five years, the Program Director will continue to monitor and evaluate feedback from the students who have withdrawal from the program to trend any patterns that can be avoided for future applicants.

2009 Assessment Plan
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<p>Students will be satisfied with their education.</p>	<p>Program satisfaction survey</p>	<p>Surveys will indicate a good score of 3. (4=very good, 3=good 2=fair, 1=poor)</p>	<p>Annually</p>	<p>Program Director</p>	<p>Average 3.51 CL09 (n=9)</p>	<p>Students will complete a program satisfaction survey on a yearly basis.</p>	<p>Benchmark met. The measuring tool was changed in 2009 to reflect the graduate's overall opinion of the Radiology Program. This benchmark will continue to be monitored. A report of the graduate surveys was formulated by the Sites/Surveys committee which will be presented to the members of the Education Committee for review. In addition, the Program Director has selected communication as feedback from the graduate survey as an area to monitor for the 2010 IAP. Student email communication was implemented by the clinical coordinator during the fall of 2009 as a method to improve the communication between the staff and students.</p>
<p>Employers will be satisfied with the graduate's performance.</p>	<p>Employer Survey overall rating average of all returned surveys.</p>	<p>90% of returned surveys will indicate an average rating score of 2. (3=above average, 2=average, 1=below average)</p>	<p>Send annually in December.</p>	<p>Program Director</p>	<p>Average score 2.6 CL09 (n=4)</p>	<p>Employers of the graduates complete surveys regarding the graduate's performance six months post graduation</p>	<p>Benchmark met. Results for CL09-2.6, CL08-3, CL07-2.2, CL06-2, and CL05-2. Although the benchmark has been met for the past five years, the Program Director will continue to monitor the results of the employer survey. In addition, a report of the employer surveys was formulated by the Sites/Surveys committee which will be presented to the members of the Education Committee for review.</p>