College of Southern Idaho

Radiologic Technology Program Outcome Assessment Plan -- Class of 2010

Mission: To prepare graduates for entry-level employment as ARRT Registered Technologists in Radiography.

Category 1: Graduate Performance

	Goal 1: Program effectiveness will be measured on an ongoing basis.					
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result	Action
1. Enrolled students	CSI	≥ 80 % graduation	Commencement	Program Director	Yes	Committee
will complete the	Commencement	rate per class.	(May)		12/12 = 100%	recommended using
program.	Ceremony					CSI Institutional
	Program Listing					Research
						Graduation Report
						as a more valid tool
						for 2011.
2. Graduates will	ARRT Radiography	Class mean scaled	December	Program Director	Yes	None
pass the ARRT	Examination	score ≥ 80 with			86% Mean	
exam in radiography	Summary	\geq 80 % first time			100% First Time	
on the first attempt.		pass rate.			Pass Rate	
3. Graduates will be	Alumni Survey	\geq 80 % of those	Six months post-	Program Director	Yes	Shorten alumni
employed or	Question #11, 12.	seeking employment	graduation.		7/7 = 100%	survey to improve
continuing their		or continuing their				data collection.
education within 6		education in 6			12 surveys mailed	
months.		months of those			or emailed. Only 7	

Last day of class

semester.

during final spring

surveys returned.

 \geq 80% say Yes of

those surveys

returned.

Alumni Survey

Ouestion #4.

4. Graduates will

receive a quality

education.

answered questions

None

11 and 12.

Mean = 4.37

12 surveys mailed or emailed. Only 10 answered question

Yes

#4.

10/10

Program Director

5. Employers will be satisfied with the performance of graduates.	Employer Survey Question #1	≥ 95 % Combined satisfactory rating of those surveys returned.	Six months post - graduation.	Program Director	Yes 4/4 = 100% 7 surveys mailed or emailed based on data from 1-1-3. Only 4 surveys	None
					returned answering question 1.	
			y 2: Clinical Perfo			
		Goal 2: Stude	ents will be clinical	lly competent.		
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result	Action
1. Students will provide appropriate patient care	A. RADT 102 Patient Care in Radiography I Unit Exams # 4 - 7. B.	A. ≥ 80 % Combined average score.	A. First semester	A. Didactic Instructor	A. Yes = 90%	A. None B. None C.
	RADT 150 Patient Care in Radiography II Unit Exams # 11 and 12 C. No simulation	B ≥ 80 % Combined average score	B. Second semester	B. Didactic Instructor	B. Yes = 92.5%	Note: 2 comps were simulations and not used. Benchmark of "on the first attempt" is not realistic as students have three chances
	Competency Evaluation Forms for (1) UGI Series and (2) Trauma Hip.	C. ≥ 100 % Combined satisfactory rating on the first attempt.	C. Third, Fourth or Fifth semester	C. Clinical Coordinator	C. No UGI 10/10 = 100% T/HIP 9/10 = 90% Mean = 95%	to pass comps. Committee recommended benchmark be changed to 3 attempts. Comp evaluation was instructive for student who failed to shield patient. Student passed second attempt.

2.	A.	A.	A.	A.	A.	A.
Students will demonstrate quality positioning.	RADT 162 Radiographic Procedures II Unit	≥ 80 % Combined average score.	Fourth semester	Didactic Instructor	Yes	None
	Exams # 11 - 17.	В.	В.	В.	= 93%	B. Committee recommended change benchmark
	No simulation Competency Evaluation Form for	≥ 100 % Combined satisfactory rating on the first attempt.	Third, Fourth or Fifth semester	Clinical Coordinator		to 3 attempts to better reflect the competency eval
	(1) Humerus and (2)	1			B.	process. Comp eval
	Barium Enema # 5, 6, 7.				No Hum = 11/12 =	was instructive for this student who
	0, 7.				91.6%	failed to remove
					BE = 8/8 = 100%	artifacts on the AP
					Mean = 95.8%	but removed them for the LAT.
3.	A.	Α.	Α.	A.	A.	A.
Students will apply	RADT 152	≥ 80 % Combined	Second semester	Didactic Instructor	Yes	None
appropriate	Radiation Protection	average score.			Mean = 87.8%	
radiation safety principles.	Unit Exams # 7 and 8.	B-1.				
principles.		≥100 % Combined				B-1-2-3.
	B.	satisfactory rating	B-1	B-1	B-1	Change benchmark
	Competency Evaluations	on the first attempt.	Third semester	Clinical Coordinator	Yes 12/12 = 100%	to 3 attempts to reflect the
	# 3, 4, 8, for three	B-2			12/12 - 100/0	competency eval
	randomly selected	≥ 100 % Combined				process. Note: RT
	non-invasive radiography exams.	satisfactory rating on the first attempt.	B-2 Fourth semester.	B-2 Clinical Coordinator	B-2 Yes	evaluator scored shielding as N/A
	radiography exams.	on the first attempt.	Fourth semester.	Cinical Coolumator	12/12 = 100%	which is
		B-3				unacceptable. Memo
		≥ 100 % Combined	B-3.	B-3	B-3 Yes	sent to CIs that all
		satisfactory rating on the first attempt.	B-3. Fifth semester.	B-3 Clinical Coordinator	12/12 = 100%	tasks must be assessed by RTEs.

4. Students will demonstrate the ability to evaluate image quality on non-routine patients.	No simulation Competency Evaluations / Image Quality Assessment Section for (1) Trauma C-Spine, (2) Pediatric Chest and (3) Portable Abdomen.	≥ 100 % Combined satisfactory rating on the first attempt.	Third, Fourth or Fifth semesters combined.	Clinical Coordinator	Yes TCS 6/6 = 100% PC = 11/11 = 100% PABD = 9/9 = 100% Mean = 100%	Change benchmark to 3 attempts to reflect the competency eval process. Note: RTE passed one student but failed to record image analysis assessment. Memo to CIs that all tasks must be assessed by RTEs.
		Category 3: Prol	blem Solving and (Critical Thinking		
	Goal 3: S	Students will posses	ss problem solving	and critical thinki	ng skills.	
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result	Action
1. Students will apply ALARA exposure techniques resulting in quality images using the least amount of radiation (High kV & Low mAs).	A. RADT 164 Imaging and Processing Unit Exams # 9, 10, 11 B. Competency Evaluations # 8, 10 and Image Quality Assessment section of one randomly selected competency evaluation of each student.	A. ≥ 80 % Combined average score. B. ≥ 100 % Combined Satisfactory rating on the first attempt.	A. Fourth Semester B. Fifth Semester	A. Didactic Instructor B. Clinical Coordinator	A. Yes Mean = 90% B. No 10/11 = 91%	A. None B. Committee recommended to remove "on the first attempt" to reflect competency evaluation process. Note: Memo to students, CIs / RTEs that exposure techniques must be on all comp evals. Re-emphasize in clinical ed orientation and CI workshops.

Students will assess the quality of radiographic images. Students will adjust equipment operation	RADT 182 Clinical Education III # 4 Mock Exam / Section 3: Image Production and Evaluation. RADT 182 Clinical Education III # 4 Mock Exam:	≥ 7.0 Combined average section score.	Fifth Semester Fifth semester	Clinical Coordinator Clinical Coordinator	Yes 12/12 Mean = 7.8 Yes 12/12 Mean = 7.2	None None
and quality control factors.	Section 2: Equipment Operation and Quality Control					
		Categor	y 4: Communicati	on Skills	1	1
	Goal 4: Stude			ffectively with pation	ents and staff.	
Outcomes	Tools	Benchmark	Time Frame	Responsibility	Result	Action
1. Students will engage in radiography-related	Explanation # 1 & 2 of the competency evaluation. (Randomly selected	A-1. ≥ 80 % Combined satisfactory rating.	A-1 Third semester.	A-1 Clinical Coordinator	A-1 Yes 12/12 = 100%	A-1 None
discussions with patients, staff and each other.	non-invasive.)	A-2. ≥ 85 % Combined satisfactory rating.	A-2. Fourth semester.	A-2. Clinical Coordinator	A-2 Yes 12/12 = 100%	A-2 None
		A-3. ≥ 90 % Combined satisfactory rating.	A-3. Fifth semester.	A-3. Clinical Coordinator	A-3 Yes 12/12 = 100%	A-3 None
2. Students in clinical setting will exhibit good oral, written,	Clinical Education Grade Determination Form B # 5.	≥ 90 % Combined satisfactory rating.	A-1 Third semester.	A-1 Clinical Coordinator	A-1 Yes 14/14 = 100%	A-1 None
listening communication skills.	Note. Some students will attend		A-2. Fourth semester.	A-2. Clinical Coordinator	A-2 Yes 17/17=100%	A-2 None

	more than one clinical affiliate during a semester and get more than one Form B Grade Determination.		A-3. Fifth semester.	A-3. Clinical Coordinator	A-3 Yes 13/13 = 100% Mean = 100%	A-3 None
3. Students in didactic setting will communicate effectively in writing.	A. Post certification report B. Post certification report. Note: Student split her report between 2 post certification modalities.	A. ≥ 8 points combined satisfactory rating. B. ≥ 8 points combined satisfactory rating.	A. Third semester. B. Fourth semester.	A. Clinical Coordinator B. Clinical Coordinator.	A. Yes 12/12 Mean = 9.87 pts B. Yes 12/12 Mean = 9.1 pts	A. None B. None
			fessional Growth a			
0-4	Table		and graduates wil		D14	A -4:
Outcomes 1. Students will apply the values, ethics and compassion of a	A. Final Grade Determination Form B.	Benchmark A-1. ≥ 90 % Combined satisfactory rating. (30 % of grade)	Tim Frame A-1 Third semester.	Responsibility A-1 Clinical Coordinator	Result A-1 Yes 14/14 = 100%	Action A-1 None
radiographer.		A-2. ≥ 90 % Combined satisfactory rating. (30 % of grade)	A-2. Fourth semester.	A-2. Clinical Coordinator	A-2 Yes 17/17 = 100%	A-2 None
	Note: For data see 4-4-2.	A-3. ≥ 90 % Combined satisfactory rating. (30% of grade)	A-3. Fifth semester.	A-3. Clinical Coordinator.	A-3 Yes 13/13 = 100%	A-3 None

2.	Employer's Survey	≥ 95 % Combined	Six months post	Program Director	Yes	None
Graduates will	# 1	satisfactory rating of	graduation.		4/4 = 100%	
apply the values,		those surveys				
ethics and		returned.			7 surveys mailed or	
compassion of a	Note: For data see				emailed based on	
radiographer.	1-1-5.				data from 1-1-3.	
					Only 4 surveys	
					returned answering	
					question 1.	
3.	Five Year Career	≥ 90 % Combined	Fifth semester	Clinical Coordinator	Yes	None
Students will	Development Plan	satisfactory rating.			12/12	
develop a five year					Mean = 96%	
career development						
plan.						

College of Southern Idaho Radiologic Technology Program Minutes of the "Communities of Interest" Committee for the Class of 2010 Outcomes Assessment Plan July 8, 2011 – 10 am to 12 am – HSHS 178

Attending:

Dr. O. Gary Lauer, RT, Radiologic Technology Program Director, CSI

Ms. Karen J. Roberts, MTD, RT, Radiologic Technology Program Clinical Coordinator, CSI

Ms. Teresa Adams, RT, Director of Imaging, Cassia Regional Medical Center, Burley, Idaho

Mr. Robin Albee, Professional-Technical Education Evaluation Specialist, CSI

Ms. Tamara Janak, BSRS, RT, Sim Lab Coordinator, Instructor Allied Health, Mammography Course Director, CSI

Ms. Michele McFarlane, Evaluation & Assessment Coordinator, CSI

Ms. Cyndie Woods, Project Manager, CBJTII, CSI

Mr. Dustin Robinson, Health Sciences and Human Services Student Academic Advisor, CSI

Ms. Cynthia Harding, MS. RDH, Program Director, Dental Hygiene, CSI

Dr. Mark Sugden, HSHS Instructional Dean, CSI

Ms. Merry Olsen, Career Readiness Facilitator, CSI

Ms. Susan Petruzzelli, HSHS Office Specialist, CSI

Dr. Lauer welcomed and thanked everyone for attending and asked everyone to introduce themselves. Then, Dr. Lauer reviewed the the agenda items which included: (1) a discussion of the JRCERT Standards / Standard 5: Assessment, (2) Summary Overview of the Classes of 2008 – 2011, and (3) the presentation of the Class of 2010 Outcome Assessment Plan for which the committee was assembled. Dr. Lauer asked the committee to keep three assessment questions in mind when reviewing the Results column: (1) Why are the results lower than expected (if they are)? (2) What contributed to the low results? (3) What is the program doing to improve the results. Dr. Lauer explained that at the end of each of the five (5) categories that he is presenting, he will call for a motion to accept or amend the action on all results for a category and that these motions be reflected in the minutes. Dr. Lauer presented the Program Effectiveness Outcomes first (as it is the first category in the assessment plan) followed by Student Learning Outcomes and the Assessment Plan Review. The following reflects the data points presented by Dr. Lauer and all motions amending the Class of 2010 Outcomes Assessment Plan as recorded by Ms. Susan Petruzelli, HSHS Office Specialist. Meeting adjourned at 11:45 am.

	Program Effectiveness Outcomes
	(Category I: Graduate Performance)
Program Completion	100% 12 students were selected for the Class of 2010 and 12 graduated. The program continues to meet its
Rates	benchmark.
ARRT Pass Rates	100% first time pass rate for the Class of 2010 with an 86% mean standard score. The 5 year average is 99% pass rate with an 86 mean standard scaled score. The mock registry examination outcome conducted in the final 5 th semester of training appears to help students pass the registry exam. The program continues to meet its benchmark.
Employment / Continuing Education	100% 12 surveys were sent out to graduates. Of the 7 who answered the question all 7 indicated they were employed. This benchmark is met.
Rates	
Graduate Satisfaction	4.37 on a scale of 1-5 of those surveys returned. 10 out of the 10 surveys returned indicated that graduates felt they had received a quality education that is above average. This benchmark is met.
Employer Satisfaction	100% 7 surveys sent to 7 employers based on data from 1-1-3. Only 4 surveys returned answering questions indicating satisfaction with the performance of our graduates. All would consider rehiring our graduates if they left. All would hire another of our graduates. Two comments were positive indicating that since the program first began, there have been lots of changes and improvements and that the program runs pretty smooth. Another employer (radiology manager) registered negative comments on the survey instrument on a long standing issue that only BIOL 227/228 Anatomy and Physiology I and II (8 Credits) be required instead of BIOL 127 Human Structure and Function (4 Credits) as the latter course lowers the bar according to the radiology manager. Both courses have been deemed appropriate options by program officials and JRC site visitors for entry level radiography training. This individual continues to press this issue (as well as others) at every opportunity although she knows our official position.
Motion to Amend	Motion made by Tamara Janak to amend Category 1: Goal 1: Outcome 1: Wording of Tool section –
Category I: Graduate	change CSI Commencement Ceremony Program Listing for data collection for the Class of 2011 to CSI
Performance (Program	Institutional Research Graduation Report. Michele McFarlane's office can provide this report. Rationale
Effectiveness)	was that a student can be listed in the official commencement pamphlet and not be officially graduated. Also to amend Goals 3,4,5: Wording of Result section – Include number of surveys sent and number of respondents along with methods used. Motion to amend was seconded by Cindy Harding. Vote taken of all present, all in favor, motion passed.

	Summary: The CSI Associate of Applied Science Radiologic Technology Program appears to be effective in meeting its mission statement and goals. A high percentage of students complete the program, pass the ARRT examination on the first attempt, gain employment or continue their education. Graduates appear to be satisfied with the quality of their education. Employers are satisfied with program graduates.
	Student Learning Outcomes
	(Categories II - V)
Category II: Clinical	Benchmark 2-2-1-C was not met although the competency evaluation was instructive for the student who
Performance	failed but passed on her second competency evaluation attempt.
	Benchmark 2-2-2-B was not met. The competency evaluation experience was instructive for the student
	who failed to remove artifacts on the AP but removed them for the Lateral.
	Regarding benchmark 2-2-3-B-1 (which was met), please note that the RT evaluator scored shielding as not
	applicable (N/A) and then passed the student undergoing competency evaluation. This practice is
	unacceptable. Therefore, the clinical coordinator has emailed a memo to all Clinical Instructors requiring
	that they notify RT evaluators to make sure all tasks are assessed on each student during the competency
	evaluation procedure.
Amendments to	Motion made by Cyndie Woods to amend Category 2:Goal 2: Outcomes 1-4: Benchmark sections for the
Category II: Clinical	Class of 2011 (2-2-1-C; 2-2-2-B, 2-2-3-B-1-2-3; 2-2-4) – change combined satisfactory rating to three
Performance	attempts, instead of first attempt to better reflect the competency evaluation process. Motion seconded by
	Dustin Robinson. Vote taken of all present, all in favor, motion passed.
	Summary: Although 2 out of the 10 benchmarks were not met, the program appears to be effective in
	preparing students to become clinically competent as entry level radiographers. They evidence an
	understanding of professional communications, safety and transfer of patients, patient care and assessment,
	infection control, how to deal with acute situations and exam prep. They are demonstrating quality
	positioning skills for both entry level noninvasive and invasive procedures in class and clinical education.
	They are correctly evaluating images on non-routine patients.
Category III: Problem	Benchmark 3-3-1-B was not met for this goal. The present benchmark of 100% combined satisfactory rating
Solving and Critical	on the first attempt is considered unrealistic since students receive three chances to pass each competency
Thinking	evaluation. Memo was sent to students, clinical instructors and RT evaluators that exposure techniques must
	be written down on all competency evaluations to verify ALARA exposure techniques (Optimum kV and
	Low mAs). The Clinical Coordinator will re-emphasize this request during clinical site visits, student

	clinical education orientation and at clinical instructor workshops.
Amendments to	Motion made by Merry Olsen to amend Category 3: Goal 3: Outcome 1-B: Benchmark section – remove
Category III: Problem	"on the first attempt" wording. Action section – explain steps taken to get closer to the benchmark.
Solving and Critical	Outcome 2 & 3: Results section – reflect number of participants. Motion seconded by Teresa Adams. Vote
Thinking	taken of all present, all in favor, motion passed.
	Summary: Three out of four benchmarks were met. Students are learning how to set ALARA exposure techniques, assess radiographic image quality, and adjust equipment operation and control factors.
Category IV:	All 8 benchmarks for this goal were met.
Communication Skills	
Amendments to	Motion made by Dr. Sugden to amend Category 4: Goal 4: Outcome 2: Move note in Action section to
Category IV:	Tools section. Outcome 3: Result section – include number of participants involved in results.
Communication Skills	
	Summary: The program appears effective in engaging students with patients, staff and each other. Students
	are listening and comprehending. They are communicating effectively orally and in writing. The new
	Clinical Education Grade Determination Form B in use for the Class of 2010 has improved assessment of
	their communication employability skills in the clinical setting.
Category V:	All 5 benchmarks for this goal were met.
Professional Growth	
and Development	
Amendments to	Motion made by Michele McFarlane to amend Category 5: Goal 5: Outcome 1: Benchmark section change
Category V:	from 30 points to 30 percent as percentage accurately reflects the percentage the grade is weighted.
Professional Growth	Outcome 2: Wording of Results section – include number of employee surveys sent and number of
and Development	respondents along with methods used. Outcome 3: results section – include number of participants (i.e., 12
	participants, 96% average). Motion seconded by Teresa Adams. Vote taken of all present, all in favor,
	motion passed.
	Summary: Students and graduates are applying the values, ethics and compassion of a radiographer.
	Students are developing a 5 year career development plan.
	Assessment Plan Review
Mission Statement	The mission statement was reviewed and amended.
Goals	The goals were reviewed and felt to be still applicable by the committee.

Amendments to	Motion made by Dustin Robinson to approve Goals and amend Mission Statement: replace "is to prepare
Mission and Goals	graduates" with "is preparing students to become graduates." Thus, the revised mission statement would
	read as follows: The mission of the College of Southern Idaho's Associate of Applied Science Radiologic
	Technology Program in Radiography is to prepare students to become graduates for entry level employment
	as ARRT Registered Technologists in Radiography. Motion seconded by Merry Olsen. Vote taken of all
	present, all in favor, motion passed.
Assessment Plan	Motion made by Michele McFarlane for Dr. Lauer to revise Assessment Plan to reflect amended changes
	from the minutes of today's meeting. Motion seconded by Teresa Adams. Vote taken of all present, all in
	favor, motion passed.
	The graduate survey for the Class of 2011 was shortened to simplify and improve pertinent data collection
	in a fashion that is similar to our employer satisfaction survey which only asks just a few pertinent
	questions. To improve data collection, we will have students complete this survey the last week of the final
	semester of training, when the student is on site and accessible. Then, in six months, Dr. Lauer will follow
	up to obtain employment or continuing education confirmation. The present graduate survey that has been
	in use since the beginning of the program has 20 questions and only three apply to our outcomes assessment
	plan. The revised survey will ask only four questions: (1) Did the JRCERT Approved CSI Radiologic
	Technology program adequately prepare you for entry level employment as an ARRT Registered
	Technologist in Radiography? YES/NO (2) Are you presently employed as a radiographer? YES/NO (3) If
	presently employed, please provide employer contact information. (4) Please provide the following contact
	information where we may reach you within six months to verify your employment or continuing education
	status.
	Overall 90.6% of the benchmarks $(29/32 = 90.6\%)$ were met for the Class of 2010.
	Final thoughts: This is the 3rd of four outcome assessment plans and the first to be reviewed and amended
	by a "communities of interest" committee as reflected in these minutes.