College of Southern Idaho

Radiologic Technology Program Outcome Assessment Plan—Class of 2015

Mission: To prepare students to become 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 Institutional	\geq 80 % annual	Commencement	Program Director	Yes	None
will complete the	Research	graduation rate.	(May)		12/12 = 100%	
program.	Graduation Report					
2. Graduates will	A.	A.	January 1 to	Program Director	A.	A. None
pass the ARRT	Annual first time	≥ 80 % Annual first	December 31 for		Yes	
exam in radiography on the first attempt.	pass rate.	time pass rate.	graduating class.		Annual first time pass rate = 100%	
	B.	В.			F ***** - *****	
	5 year first time	\geq 80 % 5 year first			В.	B. None
	pass rate.	time			Yes	
	-	pass rate.			5 year first time pass	
					rate = 89%	
	C.	C.				
	Annual program	≥ 80 Annual			C.	C. None
	mean scaled score.	program mean			Yes	
		scaled score.			Annual program,	
					mean scaled score	
	D.	D.			= 92	
	5 year program	≥ 80 5 year program				
	mean scale score.	mean scaled score.			D.	D. None
	DI . D . C				Yes	
	[Note: Data from				(1/2011 to 12/2015)	
	the ARRT				= 85	
	Radiography					
	Examination					
	Summary.)					

3. Graduates will be	Alumni Survey	\geq 80 % of those	Six months post-	Program Director	Yes	None
employed within 6	Question # 4.	seeking employment	graduation.		12/12 = 100%	
months.		of those surveys				
		returned. (Excludes				
		military and				
		continuing				
4.0.1		education.)	X	D D:	**	
4. Graduates will	Alumni Survey	≥ 80% students	Last day of class	Program Director	Yes	None
receive a quality	Question # 1.	answer YES of	during final spring		10/10 1000/	
education.		those who returned	semester.		12/12 = 100%	
		surveys and answered the				
		question.				
5. Employers will	Employer Survey	≥ 95 % Combined	Six months post -	Program Director	Yes	None
be satisfied with the	Question #4	satisfactory rating of	graduation.	1 Togram Director	3/3 = 100%	Send out between 6
(hard – technical)	Question "1	those surveys	graduation.		3/3 = 100/0	months and 1 year
performance of		returned.			(Note: This survey	and get greater
graduates.					was conducted	commitment to
					recently.)	answer survey.
		Categor	y 2: Clinical Perfo	rmance.		
		Goal 2: Stude	ents will be clinical	lly competent.		
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result	Action
1.	A.	A.	A.	A.	A. Yes	A. None
Students will	RADT 102	≥ 80 % Combined	First semester	Didactic Instructor	12/12 = 91.9%	
provide appropriate	Orientation to	average score				
patient care	Radiologic					
	Technology					
	Unite Exams # 4 – 7				D. W	D. M
		B	B.	B.	B. Yes	B. None
	B. RADT 165	≥ 80 % Combined	Second semester	Didactic Instructor	12/12=92.7%	
		average score				
	Fundamentals of CT.	C.				
	C1.	\geq 90 % First time	C. Third, Fourth,	C.	C. Yes	C. None
	C. All competency	pass rate on all	Fifth semesters	C. Clinical Coordinator	588/607=96.8%	C. NUIIC
	evaluation forms.	competency	1 IIII SCHICSCIS	Chinear Coordinator	300/00/-70.0/0	
	Cvaraation forms.	evaluations.				
		evaluations.				

	D. All unsatisfactory competency exams. #1,2,9.	D. ≤ 2% first time unsatisfactory rate of patient care tasks of all comps. (Note: We are counting comps, not tasks because it only takes one unsatisfactory to fail a comp. And, students may fail in one or more of the three areas for each Unsat comp.)	D. Third, Fourth or Fifth semester	D. Clinical Coordinator	D. Yes 2/607=.329%	D. None. Note: ARRT Patient Care section score was 8.8 (7.5 is passing).
2. Students will demonstrate quality positioning.	A. RADT 162 Radiographic Procedures II Unit Exams # 12 - 16. B. All unsatisfactory competency exams.	A. ≥ 80 % Combined average score. B. ≤ 2% first time unsatisfactory rate	A. Fourth semester B. Third, Fourth and Fifth semester	A. Didactic Instructor B. Clinical Coordinator	A. Yes 12/12=92.22% B. No 14/607 = 2.3%	A. None B. None: Increased reinforcement of correct CR placement and part positioning. Note: ARRT Procedures
3. Students will apply	#5, 6, 7. A. RADT 152 Radiation Protection	of positioning tasks. A. ≥ 80 % Combined	A. First semester	A. Didactic Instructor	A. Yes	section score was 8.9 (7.5 is passing). A. None
appropriate radiation safety principles.	Unit Exams # 7 and 8. B - 1 All unsatisfactory competency exams #3, 4, 8.	B-1. ≤ 2% first time unsatisfactory rate of radiation safety tasks.	B-1. Third, Fourth and Fifth semester.	B-1. Clinical Coordinator	12/12=87% B-1. Yes 6/607=.9%	B-1. None Note: ARRT Radiation Protection section score was 9.3(7.5 is passing).

	B - 2 Final grade determination form B. #1	B-2. ≥ Score of 3 on a scale of 1 – 4 (Excellent to Unsatisfactory)	B-2. Fifth semester.	B-2. Clinical Coordinator	B-2. Yes 12/12 = 3.9	B-2. None
4. Students will demonstrate the ability to evaluate image quality.	A. RADT 153 Image Analysis Unit and Final Exams 1-15, Final Exam A and B.	A. ≥ 80 % Combined average score.	A. Second semester.	A. Didactic Instructor	A. Yes 12/12 Mean = 94.4%	A. None
	B. All unsatisfactory competency exams image quality assessment factors.	B. ≤2% First time unsatisfactory rate of image quality assessment factors.	B. Third, Fourth and Fifth semester.	B. Clinical Coordinator	B. Yes 6/607 = .9%	B. None Note: ARRT Image Acquisition & Evaluation section score was 9.1 (7.5 is passing).

	Category 3: Problem Solving and Critical Thinking					
	Goal 3: S	Students will posse	ss problem solving	and critical think	ing skills.	
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result	Action
1.	A.	A.	A.	A.	A.	A.
Students will apply	RADT 164 Imaging	≥ 80 % Combined	Fourth Semester	Didactic Instructor	Yes	None.
ALARA exposure	and Processing Unit	average score.			12/12=86.3%	
techniques resulting	Exams # 5, 6. (Note:					
in quality images	Exposure					
using optimum	Techniques and					
kVp/Low mAs for	AEC units)					
the exposure index						
range (S#, LgM,						
IE).						

	В.	В.	B.	B.	B.	В.
	Final Grade	\geq Score of 3 on a	Fifth Semester	Clinical Coordinator	Yes	None
	Determination Form	scale of 1 –4			12/12 = 4	
	B. # 2 (Student	(Excellent to				
	thinks critically.)	Unsatisfactory)				
2. Students will	RADT 182 Clinical	\geq 7.0 Combined	Fifth Semester	Clinical Coordinator	Yes	None
assess the quality of	Education III	average ARRT			12/12 = (7.9) 8.9	Note: ARRT Image
radiographic	# 4 Mock Exam /	normalized section				Acquisition &
images.	Section 3: Image	score.				Evaluation section
	Production and					score was 9.1 (7.5 is
	Evaluation.					passing).
3.	RADT 182 Clinical	≥ 7.0 combined	Fifth semester	Clinical Coordinator	Yes	None
Students will adjust	Education III # 4	average ARRT			12/12	Note: ARRT
equipment operation	Mock Exam:	normalized section			Mean = $(6.4) 7.4$	Equipment
and quality control	Section 2:	score.				Operation & Quality
factors.	Equipment					Control section
	Operation and					score was 9.2 (7.5 is
	Quality Control					passing).

	Category 4: Communication Skills					
	Goal 4: Stude	ents will communic	cate and interact ef	fectively with pation	ents and staff.	
Outcomes	Tools	Benchmark	Time Frame	Responsibility	Result	Action
1.	Clinical Education	\geq Score of 3 on a	Fifth semester.	Clinical Coordinator	Yes	None
Students will	Grade determination	scale of $1-4$,			12/12 = 4	
engage in	Form B # 5.	(Excellent to				
productive		Unsatisfactory).				
radiography-related						
discussions with						
patients, staff and						
each other.						

2. Students in didactic setting will communicate effectively in writing.	A. Post certification report. B. Post certification report.	A. ≥ 8 points combined satisfactory rating. B. ≥ 8 points combined satisfactory rating.	A. Third semester. B. Fifth semester.	A. Clinical Coordinator B. Clinical Coordinator.	A. Yes 12/12 Mean = 8.8 pts B. Yes 12/12 Mean = 9.9 pts	A. None B. None	
	Category 5: Professional Growth and Development						
	Goal 5: Students and graduates will behave ethically.						
Outcomes	Tools	Benchmark	Tim Frame	Responsibility	Result	Action	
1.	Final Grade	≥ 90 % Combined	Fifth semester.	Clinical	Yes	None	
Students will apply	Determination Form	satisfactory rating.		Coordinator.	12/12=		
the employability	B. #1-5	(out of 30 points.)			29.8/30=99.3%		
skills of a							
radiographer.							
2.	Employer's Survey	≥ 95 % Combined	Six months post	Program Director	Yes	None	
Graduates will	# 5 (personal skills)	satisfactory rating <i>of</i>	graduation.		3/3 = 100 %	Note:	
apply soft-personal		those employer				Low response rate is	
employability skills		surveys returned.				consistent with	
of an RT (R).						previous surveys.	
3.	Five Year Career	\geq 90 % Combined	Fourth semester	Clinical Coordinator	Yes	None	
Students will	Development Plan	satisfactory rating.			12/12		
develop a five year					97.9%		
career development							
plan.							

College of Southern Idaho Radiologic Technology Program Minutes of the Program Advisory Meeting For the Class of 2015 Outcomes Assessment Plan February 15, 2017 – 10 am to 2 pm – HSHS 178 / 139

[Note: The back-log created from not being able to present the Classes of 2013 and 2014 Outcome Assessment Plan data during the 2014 and 2015 Program Advisory Committee meetings due to unforeseen circumstances (see explanations in Program Advisory Meetings Minutes of the Outcome Assessment Plans for the Classes of 2013 and 2014) created a back-log for the presentation of the Classes of 2015 and 2016 Outcome Assessment Plan data which both were presented and approved during the February 15, 2017 meeting.]

Members Present at the February 15, 2017 Meeting: Gary Lauer, Tamara Janak, Jayson Lloyd, RoseAnna Holliday, Rene Rambur, Merry Olson, Lee Ann Erickson, Tosha Rigby, Ron Jones, Ryan Mumford, Lindsay Smith, Kelsey Dietz, Lina Zenner, Jake Kerley, Debbie Bothwell, Robert Schramm, Rita Ruhter. Members Absent: Lawrence Blamires, Terry Patterson.

Rene Rambur motioned for approval of the Class of 2015 Outcome Assessment Plan. Robert Schramm seconded the motion. There was no discussion. Motion was unanimously approved.

Program Effectiveness Measures (Category I: Graduate Performance) Program Completion Rates Benchmark for 1.1.1. of ≥ 80 % annual graduation rate was met at 100%. All students selected into the Class of 2015 completed the program and graduated on time. ARRT Pass Rates & Scaled Scores All 4 benchmarks for 1.1.2.was met. Annual first time pass rate was 80% or greater at 100%. Five (5) year first time pass rate was 80 % or greater at 89%. Annual ARRT scaled score for Class of 2015 was 80 or greater at 92. Five (5) year ARRT program mean scaled score was 80 or greater at 85. (Note: Passing is 75 and national average is 84.) Employment Rates Benchmark for 1-1-3 of ≥ 80 % of those seeking employment of those surveys returned (excluding military and continuing education) was met at 100%. All graduates actively sought and found employment within 6

	months of graduation.
Graduate Satisfaction	Benchmark for 1-1-4 of ≥ 80 % students received a quality education was met at 100%.
Employer Satisfaction (of Graduate Technical Skills).	Benchmark for $1.1.5 \ge 95\%$ combined satisfactory rating of those surveys returned was met at 100%.
Amendments to	None.
Category I: Graduate	
Performance (Program Effectiveness)	
Summary	All 8 benchmarks reflecting 5 outcomes were met for Category I: Graduate Performance. Students are completing the program, passing the registry exam, gaining employment, receiving a quality education, and satisfying employers with their technical competence.
	Student Learning Outcomes
	(Categories II – V)
Category II: Clinical	10 out of 11 benchmarks reflecting 5 outcomes for Category II: Clinical Performance was met.
Performance	
Amendments to	None
Category II: Clinical	
Performance	
Summary	10 out of 11 benchmarks reflecting 5 outcomes for Category II: Clinical Performance was met. For 2.2.2.B, the benchmark of 2% or less first time unsatisfactory rate of positioning tasks was not met at 2.3%. A review of the unsatisfactory positioning competency evaluations revealed failures primarily due to incorrect central ray placement and incorrect patient part positioning and the need for greater reinforcement of these skills in these areas. However, we are not alarmed by this as the program appears effective in preparing students to become clinically competent as entry level radiographers. As evidenced in the overwhelming number of assessments students undergo to prepare for and achieve competence as entry level radiographers, they are overwhelmingly demonstrating 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-lab and in clinical education. They are applying appropriate radiation safety measures in protecting the patient, themselves and others. They are correctly evaluating images on

	non-routine patients. (Note: Collectively, the Class of 2015 exceeded the mean passing ARRT section score of 7.5 in all five sections of the radiography credentialing examination: (1) Rad Protection: 9.3, (2) Equipment Operation & Quality Control: 9.2., (3) Image Acquisition and Evaluation: 9.1, (4) Imaging Procedures: 8.9, and (5) Patient Care and Education: 8.9.)
Category III: Problem Solving and Critical Thinking	All 4 benchmarks for this goal were met.
Amendments to Category III: Problem Solving and Critical Thinking	None
Summary	All 4 benchmarks reflecting 3 outcomes for Category III: Problem Solving and Critical Thinking were met. The program appears effective in providing problem solving and critical thinking skills. Students learn how to set fixed and variable exposure techniques in the production of quality images. They learn how to evaluate image quality and demonstrate this understanding during competency evaluations. ALARA exposure techniques are being selected by the students and monitored by RT evaluators, clinical instructors and the program's clinical coordinator.
Category IV: Communication Skills	All 3 benchmarks for Category IV: Communication Skills was met.
Amendments to Category IV: Communication Skills	None.
Summary	All 3 benchmarks reflecting 2 outcomes for Category IV: Communication Skills was met. The program appears effective in having students communicate effectively orally and in writing with patients, staff and faculty.
Category V: Professional Growth and Development	All 3 benchmarks for this goal were met.
Amendments to Category V: Professional Growth	None

and Development	
Summary	All 3 benchmarks reflecting 3 outcomes for Category V: Professional Development were met. The program appears effective in having students applying the values, ethics and compassion of a radiographer. They are developing a 5 year career development plan.
	Assessment Plan Review
Summary	28 out of 29 benchmarks (96.5%) that were measured reflecting 17 outcomes assessed covering 5 goals were met. Only 2.2.2.B was not met, and it revealed a need for greater reinforcement of central ray placement and patient positioning skills. The program is meeting its mission and goals.
Mission Statement	Recommend no changes to the program mission statement. The College of Southern Idaho's Associate of Applied Science Radiologic Technology Program in Radiography is preparing graduates for entry level employment as ARRT Registered Technologists in Radiography.
Goals	Recommend no changes to the program goals. The goals established to achieve the mission of the program are being met. Program effectiveness is being measured on an ongoing basis. Students are clinically competent. Students possess problem solving and critical thinking skills. Students communicate and interact effectively with patients and staff. Students and graduates behave ethically.
Recommended changes to the assessment plan.	None
Final Thoughts	Next Program Advisory Meeting is tentatively scheduled for February, 2018 when the final outcomes assessment plan data for the Class of 2017 (only) will be presented.