College of Southern Idaho Radiologic Technology Program Outcome Assessment Plan for the Class of 2020

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

Note: This is a revised CSI Radiologic Technology Program outcome assessment plan for the Class of 2020 based on Gary and Tamara attended JRCERT outcome assessment seminars in Chicago, IL, in 2018 and 2019, that improved alignment with JRCERT accreditation outcome assessment standards requiring the creation and use of direct and indirect outcome measurement tools along with clarifications in the wording of several benchmarks. As a consequence, this outcome assessment plan represents the first year that data with be tracked and trends compared for several outcomes identified in Categories 2, 3, 4, and 5, starting next year with the Class of 2021.

Category I: Graduate Performance Goal I: Program effectiveness will be measured on an ongoing basis

Outcome	Tool	Benchmark	Time Frame	Responsibility	Result
1.	CSI Institutional	≥ 80 % annual	Commencement (May)	Program Director	Yes
Enrolled students will	Research Graduation	graduation rate.			11/12 = 91.6%
complete the program.	Report				

Action: Track data and compare trends.

- 1. The program's 5-year average completion rate of 95% results in an attrition of 5%, which is exceptionally low.
- 2. Completion rates for the program during the past 5 years is trending at ≥ 90% as follows: 2020 = 91.6%, 2019 = 91.6%, 2018 = 100%, 2017 = 100%, 2016 = 91.6%.
- 3. One student resigned from the Class of 2020 at the end of the 1st semester after deciding he was not suited for a radiologic technology career.



(Score includes 2

failures.)

2.	A.	A.	A.	A.	A.
Graduates will pass the	Annual first-time pass	≥ 80 % Annual first time	January 1 to December	Program Director.	Yes
ARRT exam in	rate.	pass rate.	31 for graduating class.		10/11 = 90.9%
radiography on the first					
attempt.					
Action: Track data and c	ompare trends.				
1. The Class of 2020's fir	st time credentialing exami	nation pass rate of 90.9% d	lid not exceed the program	n's 5-year first-time avera	age annual pass rate of
94.7% (2020 = 90.9%, 20	19 = 90.9%, 2018 = 100%, 2	2017 = 92%, 2016 = 100%, =	= 473.8 / 5 = 94.7%) by 3.8	%	
2. This indicates a down	ward trend.				
3. This 90.9% first time o	redentialing examination p	ass rate did, however, exce	ptionally exceed the bench	nmark of ≥ 80 % annual f	irst time pass rate.
	B.	В.	B.	В.	B.
	5-year first time pass	≥ 80 % 5-year first time	January 1 to December	Program Director.	Yes
	rate.	pass rate.	31 for graduating class.		54/57 = 94.7%
Action: Track data and c	ompare trends.				
1. The program's 5-year	(2020 to 2016) average firs	t time credentialing pass ra	te is 94.7% (2020 = 10 stud	dents passed /11	
total students, + 2019 =	10/11, + 2018 = 12/12, + 2	017 = 11/12, + 2016 = 11/1	1, = 54/57 = 94.7%).		
2. This resulted in an exc	ceptionally low 5.3% failure	rate compared to ARRT's A	Annual Report of Examinat	t ions 5-year first time pa	ss rate average from 201
to 2015 (most current A	RRT data available) of 88.6%	%.			
3. This resulted in a 11.4	% failure rate (2019 =89, 20	018 = 89.4, 2017 = 89.3, 203	16 = 87.2, 2015 = 88.4 = 44	3.3/5 = 88.6%).	
CSI Rad Tech Program	scores for the past 5 years	included 3 failures (1 in 20	17, 1 in 2019, and 1 in 202	0).	
	C.	C.	C.	C.	C.
	Annual program mean	≥ 80 Annual program	January 1 to December	Program Director.	Yes
	scaled score.	mean scaled score.	31 for graduating class.		11/11 = 85
Action: Track data and c	ompare trends.				
1. The annual program i	mean scaled score of 85 for	2020 is 10 points above th	e ARRT's minimum passing	scaled score of 75.	
2. 2020's annual scale so	ore of 85 matched the Idah	o mean scale score of 85.3	as reported in ARRT's Ann	nual Report of Examinati	ions.
3. All 11 students from t	he class of 2020 took the A	RRT examination and there	was 1 failure.		
	D.	D.	D.	D.	D. Yes
	5-year program mean	≥ 80 % 5-year program	January 1 to	Program Director.	57/57 = 85.8

Action: Track data and compare trends.

scale score.

1. CSI Rad Tech Program's 5-year program mean scaled score of 85.8 (2020 = 85, + 2019 = 82, + 2018 = 89, + 2017 = 87, + 2016 = 86 = 429 \div 5 = 85.8) is 2.3 points higher than ARRT's 5-year national mean scale score of 83.5 (2019 = 83.4 + 2018 = 83.6, +2017 = 83.6, +2016 = 83.3, +2015 = 83.7 = 417 \div 5 = 83.5) as calculated from **ARRT's Annual Report of Examinations** (2019 to 2015).

mean scaled score.

December 31 for

graduating class.

2 The 5-year program m	ean scaled score of 85.8 tre	ends nositively 3 to 7 noint	s above the 5 year low of 8	2 (2020 = 85, 2019 = 82, 20	118 = 89 2017 = 87 2016
= 86).	can scaled score of os.o tre	ends positively 5 to 7 point	s above the 5 year low or o	12 (2020 - 05, 2015 - 02, 20	710 - 03, 2017 - 07, 2010
3. Graduates will be employed within 6 months of graduation.	CSI RT Program Graduate Survey # 4 or students reporting job status.	≥ 80 % of those seeking employment of those surveys returned. (Excludes military and continuing education.)	Last day of class during the final spring semester of training. (Note: Students who are not employed as of last day of class are contacted within 6	Program Director	Yes 10/10 = 100% Note: One student did not report job status data.
			months of graduation.)		
10/10 = 100%, + 2018 = 1	nual job placement rate for 12/12 = 100%, + 2017 = 11/	11 = 100%, + 2016 = 11/11	atus between 2020 and 201 = 100% = 500% ÷ 5 = 54/5	4 = 100%).	11/11 = 100%, + 2019 =
4. Graduates will receive a quality	CSI RT Program Graduate Survey # 1:	≥ 80% students answer YES of those who	Last day of class during final spring semester.	Program Director	res 11/11 = 100% of
education.	Did the CSI Radiologic Technology Program adequately prepare you for entry level employment as an ARRT Registered Technologist in Radiography? (Note: Answers to this question are anonymous.)	returned surveys and answered the question.	illiai spring semester.		students received a quality education.
Action: Track data and co	1		<u> </u>		
1. Of those surveys retur adequately prepare you	ned the past 5 years has sh for entry level employment $\frac{1}{11} = 100\%$, $\frac{2020}{11} = 11/11 = 100\%$	as an ARRT Registered Ted = 100%).	chnologist in Radiography (
5. Employers will be satisfied with the (hard	Employer Survey Question #1: What is	≥ 95 % Combined satisfactory rating of	Six months post - graduation.	Program Director	YES 100 for 3/3
- technical) performance of graduates.	this person's technical abilities (i.e., radiation protection, equipment operation, quality	those surveys returned.	8.3000		respondents as of 1-11- 21.
	control, image acquisition, image				

analysis, imaging		
procedures, patient		
care)?		

Action: Track data and compare trends.

1. Of those surveys returned the past 4 years shows that 16/16 employers (100%) were satisfied with the hard technical abilities of graduates they employed (2016 = 5/5 = 100%, 2017 = 2/2 = 100%, 2018 = no data, 2019 = 6/6 = 100%).

Category II: Clinical Performance. Goal II: Students will be clinically competent.

					1
Outcome	Tool	Benchmark	Time Frame	Responsibility	Result
1.	A.	A.	A.	A.	Α.
Students will	All competency exams.	95% of the total comps	3 rd , 4 th , and 5 th	Clinical Coordinator	Yes
demonstrate they have	(Direct)	will be passed on the	semesters.		562 / 574 = 98.6%
the clinical skills of a		first attempt.			
radiographer.					
Action: Track data and co	ompare trends starting nex	t year with Class of 2021.			
	В.	B.	В.	B.	B.
	All venipuncture lab	100% of students will	5 th semester	RADT 165 Instructor	YES
	competency	pass their venipuncture			
	evaluations. (Direct)	lab competency			
		evaluation.			
Action: Track data and co	ompare trends starting nex	t year with Class of 2021.			
	C.	C.	C.	C.	C
	Trauma Case Study Part	Each student will have	5 th semester	Clinical Coordinator	<mark>No</mark>
	2: #1 How well you feel	a score ≥ 3.			2.7
	your clinical experience				
	has prepared you for				
	trauma radiography?				
	(Indirect)				

- 1. Although the benchmark of \geq 3 score for 100% of students was not met, the score was close at 2.7.
- 2. This score may have been bolstered by students already completing Bontrager's Unit 15: Trauma, Mobile, and Surgical Radiography in the 4th semester.
- 3. RADT 151 (2nd Spring) and RADT 162 (2nd Fall) instructors continued reinforcement of basic trauma, mobile, and surgical positioning concepts during the teaching of routine entry level radiographic procedures.
- 4. A clinical affiliation with a trauma one facility in SLC (Intermountain Medical Center) was established when due to covid19 it had to be cancelled.
- 5. The SLC affiliation would only be available to very few students as they would need to relocate which would have been difficult for most students.

6. There is a need to esta	6. There is a need to establish a focused trauma rotation at SLMV with documentation of all trauma exams during high trauma probability periods such as								
evenings and weekends – for all students.									
2. Students will	A.	A.	A.	A.	A.				
demonstrate they have	All Grade	Each student will have	3 rd and 5 th semesters.	Clinical Coordinator	No				
the employability skills	Determination Form	a composite score ≥ 3.			One student had a				
of a radiography.	B's. (Direct)				composite score of 2.7				
					in 5 th semester.				
Action: Track data and co	ompare trends starting nex	t year with the class of 202	1. Actual average compos	ite score was 3.76 (but or	ne student scored 2.7).				
	B.	B.	B.	B.	A.				
	Anonymous Student	Each student will have	3 rd , 4 th , 5 th semesters.	Program Director	Yes				
	Clinical Education Self-	a composite score ≥ 3.			3.17				
	Assessment Survey.								
	(Indirect)								
Action: Track data and co	ompare trends starting nex	t year with the Class of 202	21.						

Category III: Problem Solving and Critical Thinking Goal III: Students will possess problem solving and critical thinking skills.

Outcome	Tool	Benchmark	Time Frame	Responsibility	Result
1. Students will	A.	A.	A.	A.	A.
demonstrate critical	Grade Determination	Each student will have	3 rd and 5th semesters.	Clinical Coordinator	Yes
problem-solving skills	Form B # 3: The	a score ≥ 3.			3.68
performing a variety of	student thinks and acts				
challenging	creatively.				
radiography					
procedures.					
Action: Track data and co	ompare trends starting nex	t year with the Class of 202	21.		
	B.	B-1.	B-1.	B-1.	B-1.
	CSI RT Program	Each student will have	3 rd and 5 th semesters.	Clinical Coordinator	Yes
	Evaluation of Clinical	a score ≥ 3.			4.8 for #1.
	Site # 1 (Gave student				
	opportunities to	B-2.			
	participate in various	Each student will have	B-2.	B-2.	B-2.
	radiographic	a score ≥ 3.	3rd and 5th semesters.	Clinical Coordinator	Yes
	procedures) and				4.7 for #23.
	# 23 (An adequate				
	number of procedures).				

		#1: (Opportunities	to Participate	9			#23: Ac	dequate Nu	umber of Proc	edures	
	_		_	T _	T . T		_		T -		Τ .	
	5	4	3	2	1		5	4	3	2	1	
SLMV	12	2					11	2	1			
IOC	10		2				11		1			
MP2	9	2					9		1	1		
NC	3						3					
SLE	2	1					2	1				
М	3						3					
С	3						2		1			
SLWR	5						4	1				
SLJ	3						1	1	1			
Total	50	+5	+2	=57			45	+5	+5	+1	=56	
	x5	x4	х3			-	x5	x4	х3	x2		
	250	+20	+6	=276			225	+20	+15	=2	=262	
			÷52	÷57	= 4.8						÷56	= 4.68

Action: Track data and compare trends.

- 1. The data points between last year, 2019, (4.8 and 4.75) were similar to this year, 2020, (4.8 and 4.68) suggesting the trend of continued availability of exams and opportunities for students to participate.
- 2. Two students attending MP2, felt they did not have an adequate number of procedures which limits their opportunities for participation.
- 3. B-1, B-2 Average of 4.8 + 4.68 / 2 = 4.74

2. Students will	A.	A.	A.	A.	A.
demonstrate basic	RADT 151 Radiographic	Each student will have	2 nd semester.	RADT 151 Instructor.	Yes
analog and digital	Procedures Lab	a composite score ≥ 3.			11 out of 11 students
image analysis.	Assessment,	·			scored ≥ 3 with a
	#1-3 (Direct)				composite score of 3.6.
Action: Track data and co	ompare trends starting nex	t year with the Class of 202	21.		
	В.	B.	В.	B.	B.
	Student Image Analysis	Each student will have	5 th semester.	Clinical Coordinator	Yes
	Self-Assessment	a composite score ≥ 3.			11 out of 11 students
	Survey, #1-5. (Indirect)				scored ≥ 3 for a
					composite score of
					3.2.
Action: Track data and co	omnare trends starting nex	t year with the Class of 200	21	-	•

Category IV: Communication Skills Goal IV: Students will communicate and interact effectively with patients and staff.

Outcomes	Tools	Benchmark	Time Frame	Responsibility	Result
1. Students will provide	A.	A.	A.	A.	A.
appropriate patient	All Unsatisfactory	≥ 95% combined	3 rd - 4 th and 5 th	Clinical Coordinator	Yes
instructions that	Competency Evaluation	satisfactory rating.	semesters.		100%
prevent repeats due to	Task # 14: Patient				(8 out of 8 total
motion prior to making	Instructions. (Direct)				unsatisfactory ratings
an x-ray exposure.					were not due to
					unsatisfactory patient
					instruction, 8/8 =
					100%).
Action: Track data and co	ompare trends starting nex	t year with the Class of 202	1.		
	В.	В.	В.	В.	<mark>B.</mark>
	Anonymous Repeat	≤ 7.5% of all estimated	3 rd , 4 th , and 5 th	Clinical Coordinator	<mark>No</mark>
	Images Due to Patient	repeated images due to	semesters.		<mark>16.5 %</mark>
	Miscommunication	communications errors.			
	Questionnaire # 1: How				
	many repeated images				
	due to patient				
	instructions				
	communications error.				
	(Indirect)				

- 1. The method of calculating the percent of repeated images due to communications errors was as follows:
- A. Estimate total number of images per student = 2320 images X 11 students = 26,074 estimated total number of images obtained during the 3rd, 4th, and 5th semesters for RADT 180, 181, 182 Clinical Education I, II, III.
- B. Estimate total number of repeated images during the 3^{rd} , 4^{th} , and 5^{th} semesters = 1488.
- C. Estimate total number of repeated images due to communication errors = 246.
- D. Estimate repeated images NOT due to communications errors = 1488 246 = 1242. (6) Calculate estimated percent of repeated images due to communication errors = $246 \div 1488 = 16.5\%$.
- E. A line was added on the weekly exam log to track repeats due to miscommunication on each sheet.

An iron clad method for miscalculated their repeal	_	ite data f	rom all students to measu	re repeats d	ue to commun	ication error	s is needed as	s several students
2. Students will be	A.		A. A.			A.		A.
effective critical	Clinical Instructo	r	100 % of students will	3 rd and 5 th	semesters.	Clinical Cod	ordinator	Yes
communicators in the	Student Effective	<u>.</u>	have a composite score					3.76
clinical setting.	Communication	Survev	≥3.					(of 11 surveys
3	– of surveys retu							returned)
	(Direct)	····cu·						recarriedy
	,	Student	Composite Score (and ≤ 4 Sco	res)	Although CIs pe	rceived all		1
		1	3.14 (1,2,3,4,6,7,8,9,10,12,13,	,14) 3 rd Sem.	students as com	nmunicating		
		2	3.61 (1,2,3,6,10) 3 36111.		above the bench			
		3	3.92 (10) 3 rd Sem.		of 3, students 1, 2, and 8			
			3.92 (10) 5 th Sem.		were rated lower than a score of 4 and with the most			
		4	4 – 5 th Sem.		communication areas suggesting improvement			
		5	4 – 5 th Sem.					
		6 7	4 – 5 th Sem.		needed. Student 1 and 8 showed the need for greatest			
		8	4 – 5 th Sem. 3.78 (3,6,9) 3 rd Sem.					
		٥	3 (1,2,3,4,5,6,7,8,9,10,11,12,1	3 14) 5 th Sem	need for improv	ement in		
		9	4 – 5 th Sem.	.5,14/5 Jeiii.	communication			
		10	1 3 36111.					
		11						
Action: Track data and co	ompare trends star	ting with	the Class of 2021.					
1. Greater emphasis need	ds to be placed on	collectin	g all available surveys from	n Cls.				
	B.		В.	B.		В.		B.
	Anonymous Stud	lent	100 % of students will	3 rd and 5 th	semesters.	Clinical Cod	ordinator	Yes
	Radiographer Eff		have a composite score					11 out of 11 students
	Communication		≥ 3.					scored ≥ 3 for a
	(Indirect)	ou.vcy.						composite score of
	(manect)							3.56 for the group.
Action: Track data and co	 	+:	the Class of 2021	ı		J.		3.30 for the group.

- 1. Comparison of 2020 3rd and 5th semesters were identical (3.56 and 3.56 respectively) demonstrating that students more than agreed they communicated effectively.
- 2. Both 2019 and 2020 cohort composite scores (3.67 and 3.56 respectively) met the benchmark of \geq 3.
- 3. This indicates that both 2019 and 2020 cohorts consistently agreed they were communicating effectively in the clinical setting.

Category V: Professional Growth and Development Goal V: Students and graduates will behave ethically.

Outcomes	Tools	Benchmark	Tim Frame	Responsibility	Result
1. Students will adhere	A.	A.	A.	A.	A.
to ethical standards of	Grade Determination	100 % of students will	3 rd and 5 th semesters.	Clinical Coordinator	Yes
practice.	Form B-#5: Professional	have a composite score			11 out of 11 students
	Ethical Conduct.	≥ 3.			scored ≥ 3 for a
	(Direct)				composite score of
					3.74 for the group.

Action: Track data and compare trends starting with the Class of 2021.

- 1. Comparison of 2020, 3rd, and 5th semesters were similar (3.9 and 3.5 respectively).
- 2. This validates that RTs and CIs both believe students adhered to ethical standards of practice.
- 3. Both 2019 and 2020 cohort composite scores (3.95 and 3.74 respectively) met the benchmark of \geq 3.
- 4. This validates that RTs and CIs believe students from both cohorts adhered to ethical standards of practice in the clinical setting.

B.	В.	В.	В.	В.
Anonymous Student	100 % of students will	3 rd and 5 th semesters.	Clinical Coordinator	Yes
Radiographer Ethics	have a composite score			11 out of 11 students
Self-Assessment.	≥3.			scored ≥ 3 for a
(Indirect)				composite score of 3.7
				for the group.

- 1. Comparison of 2020 3rd and 5th semesters were about the same (3.7 and 3.8 respectively).
- 2. This validates that students believe they adhere to ethical standards of practice.
- 3. Both 2019 and 2020 cohort composite scores (3.78 and 3.75, respectively) met the benchmark of \geq 3.
- 4. This validates that students from both cohorts believe they adhered to ethical standards of practice in the clinical setting.

2. Employers will be	A.	A.	A.	A.	A.	
satisfied with the	CSI Rad Tech Program	≥ 90 % combined	6 months after May	Program Director		
overall personal skills	Class of 2020 Employer	satisfactory rating of	2019 graduation.			
(i.e., safety, flexibility,	Survey # 5: Please rate	those surveys received.				
creativity,	this person's overall					
communication,	personal skills (i.e.,					
	safety, flexibility,					

professionalism) of	creativity,		
graduates.	communication,		
	professionalism).		

Action: Track data and compare trends starting with the Class of 2021.

- 1. Surveys were developed and mailed 12-22-2020 with self-addressed stamped return envelops to Cassia, SLMC, MMH, NCMC, SL-J, SLWR, and Idaho Falls Community Hospital.
- 2. Results are pending.
- 3. Survey Monkey was not used this year as they appear to be charging now for email data collection, which was determined to not be cost effective since only 8 survey questions were being asked.

2 / 2 2 2 / 1/2 2 2 2 2 2 6 2 2 2					
B.	3.	B.	B.	B.	B.
A	Anonymous RT	100 % of students who	6 months after	Program Director	Yes
R	Radiographer Scope of	respond to the survey	graduation.		11/11
Pi	Practice Survey.	will have a composite			3.6
		score ≥ 3.			

- 1. This anonymous 19 question survey was given to the Class of 2020 within a week of graduating and passing their ARRT exams.
- 2. This was done because of the poor rate of return received from the Class of 2019 in which there were only two responses both disjointed, too.
- 3. Further rationale for this was the need to acquire a larger survey response to increase validity of data on how well our graduates follow the ASRT Standards of Practice.
- 4. Since 10 out of 11 members of the Class of 2020 passed their ARRT exam on the first attempt shortly after graduation, greater confidence in the validity of the results is being assumed.

Program Effectiveness Measures					
Category I: Graduate Performance					
		Criteria of Acceptance			
Percentages and Scaled S	Scores (80 to 100)	Form B and Lab Assessment Ratings (1 to 4)	Clinical Site Ratings (1 to 5)		
90 to 100 = Benchmark N	Net and Excellent	3.5 to 3.99 = Benchmark Met and Excellent	4.5 to 5 = Benchmark Met and Excellent		
85 to 89.9 = Benchmark Met	and Above Average	3.0 to 3.49 = Benchmark Met and Above Average	4.0 to 4.49 = Benchmark Met and Exceptional		
80 to 84.9 = Benchmark I	· ·	2.5 to 2.99 = Benchmark Met and Average	3.5 to 3.99= Benchmark Met and Above Average		
≤ 79.99 = Benchmark Not Me	et and Below Average	≤ 2.49 = Benchmark Not Met and Below Average	3.0 to 3.49 = Benchmark Met and Average		
	T		≤ 2.99 = Benchmark Not Met and Below Average		
Category I: Graduate	, ,	r program completion rates at ≥ 80% was met at 91			
Performance		for ARRT annual first-time pass rate at ≥ 80% was m			
	-	for ARRT 5-year first time pass rate at ≥ 80% was me			
	(1.1.2.C.) Benchmark	for ARRT annual program mean scaled score at ≥ 80	was met at 85.		
	(1.1.2.D.) Benchmark	for ARRT 5-year program mean scaled score at ≥ 80	was met at 85.8.		
	(1.1.3.) Benchmark fo	r graduate employment at ≥ 80 % was met at 100%.			
	(1.1.4.) Benchmark fo	r graduate satisfaction of training at ≥ 80% was met	at 100%.		
	(1.1.5.) Benchmark fo	r employer satisfaction of graduate technical skills a	t ≥ 95 % was met at 10 %.		
Amendments to Category I:	None				
Graduate Performance					
(Program Effectiveness)					
Summary	Eight out of 8 benchm	arks representing 8 outcomes for Category I: Gradu	ate Performance (Program Effectiveness) were met		
•	at 100%.		, ,		
	(1.1.1.) Program comp	pletion (attrition) rate is excellent at 91.6% (8.4%).			
	(1.1.2.A.) Annual first-time pass rate is excellent at 90.9%.				
	(1.1.2.B.) 5-year first time pass rate is excellent at 94.7%.				
	(1.1.2.C.) Annual program mean scale score is above average at 85.				
	(1.1.2.D.) 5-year program mean scaled score is above average at 85.8.				
	(1.1.2.D.) 3-year program mean scaled score is above average at 63.8. (1.1.3.) Graduate employment rate is excellent at 100%.				
	(1.1.4.) Graduate training satisfaction rate is excellent at 100%. (1.1.5.) The employer satisfaction rate of graduate technical skills is 100%.				
	(1.1.5.) The employer	Satisfaction rate of graduate technical skills is 100/0	•		

	Student Learning Outcomes
	(Categories II – V)
Category II: Clinical Performance	 (2.2.1.A) Benchmark for all students demonstrating clinical radiography skills at ≥ 95 % was met at 98.6 %. (2.2.1.B.) Benchmark for all students demonstrating clinical venipuncture skills at 100 % was met at 100 % (2.2.1.C.) Benchmark for students rating themselves as prepared for trauma radiography at ≥ 3 was NOT met at 2.7. (2.2.2.A.) Benchmark for CIs rating students as demonstrating radiographer employability skills at ≥ 3 was not met because one student score 2.7 (and average score was 3.76). (2.2.2.B.) Benchmark for students rating themselves as demonstrating radiographer employability skills at ≥ 3 was met at 3.
Amendments to Category II:	Yes.
Clinical Performance	(2.2.1.C.) Change criteria of benchmark acceptance from \geq 3 to \geq 2.5, which is the middle of the rating scale of 1 to 4.
Summary	Four out of 5 benchmarks reflecting 2 outcomes for Category II: Clinical Performance were met at 80 %. (2.2.1.A.) Student clinical radiography skills are excellent at 98.6%. (2.2.1.B.) Student clinical venipuncture skills are excellent at 100%. (2.2.1.C.) Students felt preparation for trauma radiography was below average at 2.7. (2.2.2.A.) Cls feel students have excellent radiographer employability skills with an average score of 3.76 (although one student score 2.7). (2.2.2.B.) Students feel they have above average radiographer employability skills at 3.0.
Category III: Problem Solving and Critical Thinking	(3.3.1.A.) Benchmark for students demonstrating creative problem-solving and critical thinking at ≥ 3 was met at 3.68 (3.3.1.B.1.) Benchmark for students to demonstrate critical problem-solving skills with sufficient opportunities to participate in various radiographic procedures at ≥ 3 was met at 4.8. (3.3.1.B.2.) Benchmark for students to demonstrate critical problem-solving skills with an adequate number of procedures at ≥ 3 was met at 4.7. (3.3.2.A.) Benchmark for students demonstrating basic analog and digital image analysis during RADT 151 lab assessment at ≥ 3 was met at 3.6. (3.3.2.B.) Benchmark for student self-assessment of basic analog and digital image analysis at ≥ 3 was met at 3.2.
Amendments to Category III: Problem Solving and Critical Thinking	None
Summary	Five out of 5 benchmarks representing 2 outcomes for Category III: Problem Solving and Critical Thinking were met at 100%. (3.3.1.A.) Students are demonstrating excellent critical problem-solving skills by thinking and acting creatively at 3.68. (3.3.1.B.1) Students are demonstrating excellent critical problem-solving skills with sufficient opportunities to participate in various radiographic procedures at 4.8.

	(3.3.1.B.2.) Students are demonstrating excellent critical problem-solving skills with an adequate number of procedures at
	4.7. (3.3.2.A.) Students are demonstrating in the RADT 151 lab assessment above average basic analog and digital image analysis
	at 3.6.
	(3.3.2.B.) Students have an above average self-assessment of their analog and digital image analysis knowledge and skills at 3.2.
Category IV: Communication Skills	(4.4.1.A.) Benchmark for students providing patient instructions that prevented repeats due to motion prior to making x-ray exposures at \geq 95% was met at 100%.
	(4.4.1.B.) Benchmark for student self-assessment on how many repeats were due to miscommunication error at ≤ 7.5% was
	not met at 16.5%.
	$(4.4.2.A.)$ Benchmark for students being perceived by CIs as effective communicators in the clinical setting at ≥ 3 was met at
	3.76.
	(4.4.2.B.) Benchmark for students self-assessment of their communication effectiveness in the clinical setting at ≥ 3 was met at 3.56.
Amendments to Category	Yes.
IV: Communication Skills	(4.4.1.B.) Estimation of a more realistic benchmark and a procedure for the collection of data on student self-assessment of
	repeats due to miscommunication errors needs significant revision to ensure validity and reliability of data collected and
	treated beginning with the Class of 2021.
Summary	Three out of 4 benchmarks representing 2 outcomes for Category IV: Communication Skills were met at 75%:
	(4.4.1.A.) Students are providing excellent patient instructions to prevent repeats due to motion prior to making x-ray exposures at 100%.
	(4.4.1.B.) Students self-assessment of the number of repeats due to communication errors is at extensively high at 16.5%.
	(4.4.2.A.) Student are being perceived by CIs as excellent effective communicators in the clinical setting at 3.76.
	(4.4.2.B.) Students perceive themselves as excellent effective communicators in the clinical setting at 3.56.
	Note: There is a problem with data collection and treatment here.
Category V: Professional	(5.5.1.A.) Benchmark for students perceived as adhering to ethical standards of conduct by CIs in the clinical setting at ≥ 3
Growth and Development	was met at 3.7.
	(5.5.1.B.) Benchmark for students self-assessments of adhering to ethical standards of conduct at \geq 3 was met at 3.7.
	(5.5.2.A.) Benchmark of employers being satisfied with graduate personal skills at ≥ 90% was met at%. TBD
	(5.5.2.B.) Benchmark of graduates as RTs following the radiography professions scope of practice standards at ≥ 3 was met at
	3.6.
Amendments to Category V:	None
Professional Growth and	
Development	
Summary	Four out of 4 benchmarks representing 2 outcomes for Category 5: Professional Growth and Development were met at 100%. (5.5.1.A.) Students are being perceived as adhering excellently to ethical standards of conduct by CIs in the clinical setting at 3.7.

(5.5.1.B.) Students perceive themselves as excellently adhering to the professions ethical standards of conduct in the clinical setting at 3.7. (5.5.2.A.) Employers are excellently satisfied with the personal skills of program graduates at ______%. TBD (5.5.2.B.) Graduate RT's are excellently following the professions radiography scope of practice standards in the clinical setting at 3.6. **Assessment Plan Review** 1. Twenty-four out of 26 benchmarks representing 16 measured outcomes across 5 categories and 5 goals were met at Summary 92.3%, which is excellent. 2. There were 19 benchmarks the met an "Excellent" criteria of acceptance. 1.1.1 1.1.2.A. 1.1.2.B. 1.1.3. 1.1.4 1.1.5 2.2.1.A. 2.2.1.B. 3.3.1.A. 3.3.1.B.1. 3.3.1.B.2. 4.4.1.A. 4.4.2.A. 4.4.2.B. 5.5.1.A. 5.5.1.B. 5.5.2.A. 5.5.2.B. 3. There were 5 benchmarks that met an "Above Average" criteria of acceptance.

4. There were 3 benchmarks that did "Not Meet" a satisfactory criteria of acceptance.

1.1.2.C. 1.1.2.D. 2.2.2.B. 3.3.2.A. 3.3.2.B.

2.2.2.A.

	2.2.1.C.			
	4.4.1.B.			
	5. Conclusion: The JRCERT accredited CSI Associate of Applied Science Degree Radiologic Technology Program in Radiography			
	is an above average to excellent program.			
Mission Statement	No recommended changes were made to the program mission statement:			
	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.			
Goals	No recommended changes were made to the program goals that are established by the JRCERT to achieve the mission:			
	(1) Measuring program effectiveness on an ongoing basis.			
	(2) Producing clinically competent students.			
	(3) Producing students with problem solving and critical thinking skills.			
	(4) Producing students who can effectively communicate and interact with patients and staff.			
	(5) Producing students and graduates who behave ethically.			
Recommended changes to	Yes			
the assessment plan.	1. Establish a Criteria of Acceptance for tools used in the program's outcome assessment plan so that the program's			
	individual and collective assessments can be comparatively qualified.			
	Criteria of Acceptance			
	Percentages and Scaled Scores (80 to 100)			
	90 to 100 = Benchmark Met and Excellent			
	85 to 89.9 = Benchmark Met and Above Average			
	80 to 84.9 = Benchmark Met and Average			
	≤ 79.99 = Benchmark Not Met and Below Average			
	From B and Lab Assessment Ratings (1 to 4)			
	3.5 to 3.99 = Benchmark Met and Excellent			
	3.0 to 3.49 = Benchmark Met and Above Average			
	2.5 to 2.99 = Benchmark Met and Average			
	≤ 2.49 = Benchmark Not Met and Below Average			
	Clinical Site Ratings (1 to 5)			
	4.5 to 5 = Benchmark Met and Excellent			
	4.0 to 4.49 = Benchmark Met and Exceptional			
	3.5 to 3.99= Benchmark Met and Above Average			
	3.0 to 3.49 = Benchmark Met and Average			
	≤ 2.99 = Benchmark Not Met and Below Average			

	2. (2.2.1.C.) Change criteria of benchmark acceptance from \geq 3 to \geq 2.5, which is the middle of the rating scale of 1 to 4.
	3. (4.4.1.B.) Estimate of a more realistic benchmark and a procedure for the collection of data on student self-assessment of repeats due to miscommunication errors needs significant revision to ensure validity and reliability of data collected and treated beginning with the Class of 2021.
	4. Reword program goals that are used to achieve the program's mission for improved communication: (1) Program effectiveness will be measured on an ongoing basis.
	(2) Students will be clinically competent.
	(3) Students will solve problems creatively and think critically in the clinical setting.
	(4) Students will communicate and interact with patients and staff effectively in the clinical setting
	(5) Students will conduct themselves professionally and ethically in the clinical setting.
Final Thoughts	1. The Class of 2021 Outcome Assessment Plan is to be assessed at the next annual program advisory committee meeting
	during February 2022.
	2. The CSI Radiologic Technology Program will undergo its JRCERT continuing accreditation (self-study and site visit) during 2022.

Radiologic Technology Program Advisory Committee Meeting Minutes for the Review and Approval of the Class of 2020 Outcome Assessment Plan

March 3, 2021 HSHS Room 178 10:00 am – 12 noon

O. Gary Lauer	CSI RADT Program Director	glauer@csi.edu	
Tamara Janak	CSI RADT Clinical Education Coordinator	tjanak@csi.edu	208-732-6716
RoseAnna Holliday	CSI HSHS Department Chair	rholliday@csi.edu	208-732-6737
Rene Rambur	CSI HSHS Student Advisor	rrambur@csi.edu	208-732-6730
Pat Weber	CSI Center for New Directions	pweber@csi.edu	208-732-6688
Thomas Bandolin	CSI Career Readiness Facilitator	tbandolin@csi.edu	208-732-6303
Rae Jean Larsen	CSI Office Specialist	rlarsen@csi.edu	208-732-6701
Kandis Pedersen	SLMV Imaging Director	pedersek@slhs.org	
Ryan Mumford	SLMV CT Supervisor	ryanm@slhs.org	208-814-1520
Lindsay Smith	CRMC Director of Diagnostic Imaging	Lindsay.Smith@imail.	org
Jake Kerley	Account Executive, Turn Key Medical	jkerley@trun-keymed	ical.com
Alexi Hagen	CSI RADT Sophomore Student	ajhagen@csi.edu	
Wesley Lafleur	CSI RADT Freshman Student	WLaFleur@csi.edu	
layson Lloyd	CSI HSHS Instructional Dean	illovd@csi edu	208-732-6547
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	Tamara Janak RoseAnna Holliday Rene Rambur Pat Weber Thomas Bandolin Rae Jean Larsen Kandis Pedersen Ryan Mumford Lindsay Smith Jake Kerley Alexi Hagen	Tamara Janak RoseAnna Holliday Rene Rambur Pat Weber CSI Center for New Directions Thomas Bandolin Rae Jean Larsen Kandis Pedersen Ryan Mumford Lindsay Smith Jake Kerley Account Executive, Turn Key Medical Alexi Hagen Wesley Lafleur CSI HSHS Student Advisor CSI Center for New Directions CSI Career Readiness Facilitator CSI Office Specialist SLMV Imaging Director Ryan Mumford SLMV CT Supervisor CRMC Director of Diagnostic Imaging Jake Kerley Account Executive, Turn Key Medical CSI RADT Sophomore Student CSI RADT Freshman Student CSI RADT Freshman Student CSI Grant Writer Cassia Medical Center Clinical Instructor Stacey Mitchell Barry Pate CSI Instructional Dean CTE Instructional Dean	Tamara Janak CSI RADT Clinical Education Coordinator RoseAnna Holliday CSI HSHS Department Chair Rene Rambur CSI HSHS Student Advisor Pat Weber CSI Center for New Directions Thomas Bandolin CSI Career Readiness Facilitator Rae Jean Larsen CSI Office Specialist Kandis Pedersen SLMV Imaging Director Ryan Mumford SLMV CT Supervisor Lindsay Smith CRMC Director of Diagnostic Imaging Jake Kerley Account Executive, Turn Key Medical Alexi Hagen CSI RADT Sophomore Student Wesley Lafleur CSI Grant Writer Michelle Higley Cassia Medical Center Clinical Instructor Stacey Mitchell Product Specialist, Turn Key Medical Barry Pate CTE Instructional Dean t tjanak@csi.edu rholliday@csi.edu rholliday@csi.edu tholliday@csi.edu rholliday@csi.edu rholliday@csi.edu rholliday@csi.edu rholliday@csi.edu rholliday@csi.edu rholliday@csi.edu pweber@csi.edu Tanadolin@csi.edu pweber@csi.edu Tarsen@csi.edu pweber@csi.edu Itanadolin@csi.edu pweber@csi.edu Itanadolin@csi.edu pweber@csi.edu Itanadolin@csi.edu pweber@csi.edu Itanadolin@csi.edu Itanadolin@csi.e

Introduction and Purpose of Meeting:

Gary Lauer called the meeting to order at 10 am. Members were introduced and the agenda was explained.

Review and Approval of Minutes:

The minutes from the February 19, 2020 Program Advisory Committee Meeting were reviewed and discussed. A motion to approve the previous minutes by Lindsay Smith, seconded by Thomas Bandolin. All approved.

Approval of Class of 2019 Outcome Assessment Plan:

The Outcome Assessment Plan for the Class of 2020 was discussed in detail. The plan was sent to the committee members through an email attachment prior to the meeting for their review. Note: This is a revised CSI Radiologic Technology Program Outcome assessment plan for the Class of 2020 based on Gary and Tamara attended JRCERT outcome assessment seminars in Chicago IL, in 2018 and 2019, that improved alignment with JRCERT accreditation outcome assessment standards requiring the creation and use of direct and indirect outcome measurement tools along with clarifications in the wording of several benchmarks. As a consequence, this outcome assessment pan represents the first year that data will be tracked and trends compared for several outcomes identified in Categories 2, 3, 4, and 5, starting next year with the Class of 2021.

Topics of discussion included:

Category 1: Graduate Performance. All benchmarks were met. Eleven students passed the ARRT Registry on the first attempt, one did not with a score of 78. The class scored a composite of 85 compared to the Idaho mean scale score of 85.2. Motion to approve by RoseAnna Holliday, seconded by Lindsay Smith.

Category 2: Clinical Performance. Five tools were identified for Category 2. Outcome 2.2.1C: Trauma Case Study Part 2 Question #1 was not met. A "trauma radiation rotation" on Friday evenings and weekends has been started at St. Luke's Magic Valley. An optional rotation at Intermountain Medical Center (Trauma I) in Salt Lake City was cancelled for this group due to COVID-19. A motion to approve by Thomas Bandolin, seconded by RoseAnna Holliday.

Category 3: Problem Solving and Critical Thinking. Four tools were measured. All benchmarks were met. Comparing data points between 2019 and 2020 in 2.2.1B shows students continue to experience plenty of opportunities to participate in exams and there are an adequate number of procedures at each facility. Motion to approve by Kandis Pedersen, seconded by Ryan Mumford.

Category 4: Communication Skills. Four tools were measured. 4.4.1B Anonymous Repeat Images Due to Patient Miscommunication was not met. Students estimated their repeats due to patient miscommunication and may have overestimated the number. A line on the clinical education Weekly Exam Log was added to track repeats due to miscommunication to provide more accurate data. Motion to approve by Lindsay Smith, seconded by Thomas Bandolin.

Category 5: Professional Growth and Development. Four tools were used to evaluate the outcomes. All were met. The anonymous RT Radiographer Scope of Practice survey was given to graduates within a week of graduation to increase participation. All students exceeded the benchmark of ≥ 3, indicating they all follow the ASRT Standards of Practice. Employer surveys were mailed this year instead of using Survey Monkey. Return was still limited with only 3 surveys sent back. Kandis Pedersen suggested using email to send surveys with completion dates in Subject heading and sending reminders to those who have not returned the survey. Motion to approve by RoseAnna Holliday, seconded by Kandis Pedersen.

The outcome assessment plan for 2020 is a continuance of the revision made for the Class of 2019 to include indirect along with direct tools to evaluate student performance. Benchmarks were changed to state 100% of students would perform at the level specified, not just an average over all students.

A motion to approve the Class of 2020 Outcome Assessment Plan by Ryan Mumford, seconded by Rene Rambur. All approved.

Turn-Key Medical upgraded the CR / film-screen energized x-ray room to a \$50,000 state-of-the-industry CareStream DR room. Students have access to the Deviation Index (DI), Target Exposure Index (TEI), and their Exposure Index (EI) on each image providing immediate feedback to measure exposure to the image receptor. Students can use this information to recalculate their exposure technique to match the TEI. CSI now has the equipment students are expected to work with in their clinical rotations.

Equipment Upgrades:

Travel:

Tamara travelled to Intermountain Medical Center in Salt Lake City in March to establish an optional clinical education rotation for 5th semester students to get an opportunity to be immersed into a Trauma I hospital. Unfortunately no students were able to participate in the rotation due to COVID-19 suspending clinical education beginning the middle of March. All other travel was suspended due to COVID-19.

Clinical Instructor Workshop:

Tamara gave an update on the 2020 Clinical Instructor Workshop. The meeting was held via Zoom. The workshop focused on the need for thorough documentation of student behavior by the clinical instructor in the clinical sites. Students deserve honest feedback and the program needs the documentation to track any behaviors that may cause concern. With clinical education suspended, plans were discussed to make up missed clinical time for students once the sites were open again.

Student Selection:

Student applications are due June 1, 2021 for the new group beginning August 2021. Interviews were held via zoom last year but hopefully we can do face-to-face interviews this year. The committee is looking for members to help with student selection interviews.

Mammography Course Update:

The 2020 Mammography Conference was cancelled due to low registration. An agreement with Workforce Training to promote the course and manage registration has been developed. This will simplify the registration process.

Clinical Manpower Updates:

Lindsay Smith stated Cassia Medical Center is currently fully staffed but one RT is going back to school so one position may open soon. Kandis Pedersen indicated St. Luke's Magic Valley has some openings. A few from the class of 2021 have already been hired. Idaho's population is growing so there is a large demand for RTs across the region with many opportunities available for graduating students. A new imaging center is being built in Twin Falls opening fall 2021. North Canyon Medical Center has expanded, opening a new pediatric clinic in Jerome.

CSI Manpower Update:

Gary Lauer will be retiring as the Program Director of the Radiologic Technology Program on July 30, 2021. RoseAnna Holliday thanked Gary for his years of service to the program.

Medical Imaging Industry Update:

Jake Kerley from Turn-Key Medical gave a heartfelt thank you to all the front line workers who worked tirelessly through the pandemic. Turn-Key was busy assisting hospitals with issues caused by the pandemic. The government helped with a lot of funding. They currently do not have any open positions. Turn-Key expanded into Utah to provide sales and service for c-arms to facilities there.

Sophomore Class Updates:

Alexi Hagen from the Class of 2021 described the adversities students endured when caught in the pandemic. Face-to-face courses were suddenly moved online to zoom due to the college suspending all in person instruction. The class had a solid lab experience which they were able to convert to clinical education.

Note: Gary and Tamara are very proud of the way the Class of 2021 handled the challenges handed them due to the COVID-19 pandemic. They were in didactic and clinical courses continuously from March through December 2020 without any breaks. We never heard any complaints from them about the situation. The class has remained committed to their education, studying hard to complete their outcomes and prepare for the upcoming Registry.

Freshman Class Updates:

Wesley LaFluer from the Class of 2022 described his class's experience with an online/zoom format. Spending six hours in a day on zoom is difficult but doable. Students are excited to be in the Rad Lab for their procedures lab. Getting hands-on experience is helpful and moved them out of their comfort zone in their living room. Zoom also helped students who would have needed to commute to Twin Falls to attend class. The class is excited to start their first clinical education rotation in June.

Note: The RADT 151 lab has been divided into three sections to minimize the size of the group in the lab at one time. Only four students attend each lab. Gary takes two students and Tamara takes two students providing intensive one-on-one instruction. This has maximized lab time to build in-depth knowledge of radiographic positioning.

Other:

Kandis Pedersen said the St. Luke's system is operating at a Level 1 now. The number of COVID-19 patients has decreased dramatically since the high point last year. Approximately 40-50% of their employees have been vaccinated which lines up with our students also. Most of those who have chosen not to be vaccinated had COVID and are monitoring their antibodies to check for immunity.

Meeting Adjourned:

Gary Lauer thanked all attendees for attending the virtual Program Advisory Committee meeting. The meeting was adjourned at 11:46 am.