Assessment Plan Analysis and Review (Fall 2021 – 2022)

Date: 11/19/2024
In attendance:

Rafael Rivera, Program Director
Lezlee Inman, Clinical Coordinator
Jennifer O'Laughlin, Clinical Coordinator (zoom)
Alejandra Valencia, Program Assistance.
Nicole Hoffert, Clinical Instructor, Sequoia Hospital
Shareen Law and Jessica Gomez, Clinical Instructors at LPCH
Leilani Bitanga Clinical Instructor, Kaiser South San Francisco Medical Center
Loubna Chraibi, Clinical Instructor, San Mateo Medical center
Heidi Quadra, Imaging Manager, Kaiser Redwood City Medical Center (Zoom).

Goal 1: **Students will be clinically competent.**

Outcome- Students will apply positioning skills.

1. Measuring Tool 1: **RADT 420. Lab Practical Rating Form**
   Benchmark was met- Attributed to detailed supervision and feedback during laboratory exercises; in addition, students are given extra time after labs.
   Previous years Suggested change: Last A.M suggestion was to change question 2 → Practical Rating Form Labs 2 and 4.

. 2. Measuring Tool 2: **Clinical Coordinator Observation Forms 11&12**
   Comment: Lezlee--- Random sampling should detail what % of the class will be sampled. All Agree?
   Benchmark was met- Students show progression from previous semester with extra guidance and early feedback.
   Suggested Change: 3 observations-→ 2— Is the committee in agreement? Yes

3.Measuring Tool 3: **Clinical Comp. Rating Forms 7 & 17**
   Benchmark was met-
   Suggested Change: Confirmation to remove Clinical Competency Rating because we have had a 100% for the last several years.
   Form Q #7&17 from Goal #1? **Yes**

Outcome- Student will select appropriate technical factors

1. Measuring Tool 1**: RADT 430** Principles of Radiation Exposure. Exam 4.
   i. Benchmark was not met--- under by 1%- Correction made: The average percentage was 88%; therefore, the benchmark was met.
      1. RADT 430 provides a strong foundation and understanding of the basic principals effecting technical factor formulation. Laboratory exercises reinforce the principles of radiation exposure.
   ii. **Plan—Observe trend for next year**

2. Measuring Tool 2**: Clinical Coordinator Observation Form**
(Question 12)
   iii. Benchmark was met. We will continue to require students to create technique charts for the facilities that they rotate through. As part of the image analysis, students critique images on technical factor use.

iv. **Suggested Change---- Do all agree to sample the entire cohort? Yes or No?**
    1. Yes- Sample Entire Cohort

Outcome- Students will practice radiation protection.

b. Measuring Tool 1: **RADT 420. Lab Practical Rating Form.**
(Questions 4 and 5)
- **i.** Benchmark was met. Consistent reinforcement on radiation protection since the first semester.

c. Measuring Tool 2: **RADT 415. Radiation Protection and Biology. Exam 4.**
- **i.** Benchmark was met. Students are being taught the principals of ionizing radiation effects.

d. Measuring Tool 3: **Clinical Coordinator *Final* Observation Form.**
Questions 16, 17
- **i.** Benchmark was met.
- ***ii.*** *Note: The word "Final" was added in order to be more precise.*
- **iii. Suggested change---- Can we remove Q# 16? Yes or No?** Because the state of CA and the ASRT is still recommending the use of shields when they do not interfere with the anatomy of interest.
- **iv.** Or can this measuring tool can be eliminated since RADT 420 lab practical form is measuring the same items. Yes, remove it.

Goal 2: Students will manipulate technical factors for non-routine examinations.

Outcome: Students will use effective oral communication skills with clinical staff.

e. Measuring Tool 1: **Personal and professional Growth Assessment Form.**
Midterm Eval.
1-Professionalism Sections (b, c, e)
- i. Benchmark was met for B, C, E not for F or J. We will observe F & J in our next cycle.
- ii. Previous years Suggested change: Last A.M suggestion was to split the measuring tool into two separate tools for this outcome.
- iii. Lezlee Comments---- Will talk to CI's about creating an example rubric.

f. Measuring Tool 1: **Personal and professional Growth Assessment Form.**
Midterm Eval.
1-Professionalism Sections (F and J)
- i. Benchmark was not met for F or J.
- ii. Change in action: Measuring tool split into two separate tools for this outcome.

Outcome: Students will use effective oral communication skills with patients

g. Measuring Tool 2: **Personal and professional Growth Assessment Form.**
Protection, Safety and comfort of patients Section (F and G)
- **i.** Benchmark met only using G.
- **ii.** PPG was updated and F is no longer relevant.
- **iii.** Suggested Change: Next cycle we want to change F → D; Does the committee agree, Yes or NO?
- **iv.** (Demonstrates more of effective oral communication with patients) S-Communicates appropriately and effectually with patients of varying diversity (i.e. age, culture, sexual orientation, etc.). Request the committee to replace G with S.

v.

h. Measuring Tool 3: **Clinical Competency Rating Form.**
Sections 16 and 19
   i. Benchmark was met.
   ii. Suggested Change: Remove measurement tool for this outcome-→ Yes or No?
   iii. Note: Section 16---- communicated with patient before and after procedure. Section 19- Gives appropriate breathing instructions

i. Measuring Tool 4: **RADT 410.** Laboratory Final Practical Rating Form.
Question 1
   i. Benchmark was met. Faculty believes that due to the recency of the communication sections in RADT 400 and RADT 408. Next cycle get rid of it.
   ii. Note: Please only use the FINAL Practical Rating form.

Outcome: Students will practice written communication skills.

j. Measuring Tool 1**: RADT 440. Advance Imaging Modalities**.
Students write a research paper on the Radiographic subspecialty of their choice
   i. Benchmark was met. However; scores were lower than last year. Faculty would like scores to increase to 85%.

k. Measuring Tool 2**: RADT 442.Radiographic Pathology.**
Students write a research paper on a pathology of their interest. Rubric categories Content #2 and #3 and Mechanics #1-#4
   i. Benchmark was met. Faculty will keep observing results.

Goal #3: Students will use critical thinking and problem-solving skills.

Outcome: Students will manipulate technical factors for non-routine examinations.

l. Measuring Tool 1: **Clinical Coordinator Observation Form**
(Question 8)-
Random Sampling of three observation per student
   i. Benchmark was met.

m. Measuring Tool 2**: Critique Form for Exam with Modify Projections** due to patient's condition. Section Technical Factors
   i. Benchmark was met. We feel that this benchmark does measure the setting of technical factors for non-routine examinations.

n. Measuring Tool 3**: Critique Form for Exam in the OR**
   i. Benchmark was met.
   ii. Suggested Change: Remove measurement tool for this outcome→ Yes or No? Does the committee agree? Yes, the committee agrees. There is minimal technique manipulation in the operating room, most cases are done with fluoroscopy.

Outcome: Students will adapt positioning for trauma patients.

o. Measuring Tool 1: **RADT 440. Advance Imaging Modalities**.
Exam #1
   i. Benchmark was met. Trauma radiology videos have been incorporated into lectures and more emphasis has been given to trauma during class time, since the program has no affiliation with a trauma center.
   ii. Note- Class 24-25 double check exam #1 changes to → #5. l.

p. Measuring Tool 2: **RADT 420.Laboratory Practical**
-Trauma situations

i. Benchmark was met. Trauma positioning is consistently reviewed during the initial presentation of specific body regions, such as the cervical spine and skull, followed by a dedicated section on trauma radiology

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

Outcome: Students will determine the importance of continued professional development.

A. Measuring Tool 1: **RADT. 468 Specialty Rotation** Students write a research paper on the importance of professional development
   i. Benchmark was met. Students gained firsthand insight into advanced modalities directly from practicing technologists.

B. Measuring Tool 2: **RADT 440. Student Survey**
after interviewing 3 Technologist working in advance modalities
   i. Benchmark was met. Students better understood future specialization options within radiology.
   ii. ***Change made- Change 3 technologist to "a" technologist. All agree? Yes.***

Outcome- Students will summarize the importance of attendance at professional meetings

C. Measuring Tool 1: **Survey evaluation of the importance of CSRT conference**
   i. No data. Students were not able to attend conference.
   ii. Suggested Change: Change measurement tool for this outcome to say---- "Students will experience a variety of imaging modalities in Radiologic Technology. Does the committee agree? Yes or No?
   iii. Comments:
   iv. Suggested Addition- Add in second measuring tool Students will write a summary after visiting offsite clinics of specialized professional modalities and guest lectures.

Goal 5: **The program will graduate entry-level technologists.**

Is this goal still necessary since the outcomes and measuring tools are the same used for our annual effectiveness data?

Suggested change: Remove goal from assessment plan. Suggested comment: check with the JRCERT visiting team.

Outcome- Students will pass the ARRT national certification on the 1st attempt.

D. Measuring Tool 1: ARRT 1st Time Pass Rates
   i. Benchmark not met.

Outcome- Of those pursuing employment, students will be gainfully employed within 12 months post-graduation.

E. Measuring Tool 2: **Graduate Survey**
   i. Benchmark was met

Outcome: Students will complete the program within 150% of the program's length of 25 months.

F. Measuring Tool 1: **Retention Rate**
   i. Benchmark was met.

Outcome- Students will be satisfied with their education.

G. Measuring Tool 1: **Graduate Survey**

i. Benchmark was met.

Outcome- Employers will be satisfied with the graduate's performance

H. Measuring Tool 1: **Employer Survey**

(Phone Survey)

i. Suggested change: current- Employers will be satisfied with the graduate's performance.
→ Student will retain employment with clinical facility for 9 months or more.

ii. Do we all agree with the change? Yes or No?

Outcomes Assessment Plan
Cañada College
Radiologic Technology Program
Fall 2021 - Spring 2022 - Summer 2022 – Fall 2022
(Observing classes of 2022 and 2023)

Goal 1: Students will be clinically competent.					
Outcome	**Measurement Tool**	**Benchmark**	**Timeframe**	**Responsible Party**	**Results**
Students will apply positioning skills.					
	RADT 420. Lab Practical Rating Form (Questions 2)	Average score of 12 or higher. (15 point scale)	1st Year – Spring Semester (2022) **(class of 2023)**	Laboratory Instructor	**Avg=13.1** H=15 L=7
	Clinical Coordinator Observation Form (Question 11 and 12) – Random Sampling of three observation per student	Average score of 3.6 or higher (4 point scale)	2nd Year – Spring Semester **(Class of 2022)**	Clinical Coordinators	**11=3.7 average** **12=3.6** **3.8 high score** **3.1 low score** Note: there are two observations done in the semester.
	Clinical Competency Rating Form. (Questions 7 and 17) Random Sampling of three forms	85% will pass these two sections. (Pass or Fail rating)	2nd year – Spring semester **(Class of 2022)**	Clinical Coordinator	**100% pass**
Student will select appropriate technical factors	**RADT 430**. Principles of Radiation Exposure. Exam 4.	Average score of 80% or higher	1st Year – Spring Semester (Spring 2022) **(Class of 2023**	Course Instructor	**Average. 79%** **High score: 98%** **Low score: 67%**

			(Class of 2023)		
	Clinical Coordinator Observation Form (Question 22) – Random Sampling of six observation per student	Average score of 3.6 or higher (2.8 – 4 scale)	2nd Year. Summer Intersession (Summer 2022) **(Class of 2022)**	Clinical Coordinator	**Average=3.6** Note- one observation is done during the summer session.
Students will practice radiation protection.					
	RADT 420. Lab Practical Rating Form. (Questions 4 and 5)	Average score of 11 or higher (14 points possible) Quest 4 = 6 points Quest 5 = 8 points	1st Year. Spring (Spring 2022) **(class of 2023)**	Laboratory Instructor	**Avg=12.4** H=14 L=8
	RADT 415. Radiation Protection and Biology. Exam 4.	Average score of 80% or higher.	1st Year. Spring Semester. (Spring 2022) **(class of 2023)**	Course Instructor	**Average. 85%** **High score: 98%** **Low score: 78%**
	Clinical Coordinator Observation Form. Questions 16, 17.	Average score of 3.6 or higher (2.6 – 4 scale)	1st year. Fall Semester (Fall 2021) **(class of 2023)**	Clinical Coordinator	Data taken from RADT 428 (first clinical semester final) **16=3.8** (high 4/low 3.5) **17=3.7**(high 3.8/low 3.5)

Goal #2 : Students will communicate effectively.					
Outcome	**Measurement Tool**	**Benchmark**	**Timeframe**	**Responsible Party**	**Results**
Students will use effective oral communication skills with clinical staff.	**Personal and professional Growth Assessment Form. Midterm Eval.** 1-Professionalism Sections (b, c, e, f and j)	Average of 3.6 (Scale from 2.6 to 4)	1st Year Fall Semester (Fall 2021) **(class of 2023)**	Clinical Instructor	**Average= b=3.7** H=4/L=3.1 **c=3.6** H=3.8/L=3.1 **e=3.8** H=4/L=3.5 **f=3.5** H=4/L=3.1 **j=3.5** H=4/L=3.1
Students will use effective oral communication skills with patients	**Personal and professional Growth Assessment Form.** Protection, Safety and comfort of patients Section (f and g)	Average of 3.6 (Scale from 2.6 to 4)	1st Year. Fall Semester (Fall 2021) **(class of 2023)**	Clinical Instructor	**Average f=3.5** H=3/L=3.5.8 **g=3.7** H=4/L=3.5
	Clinical Competency Rating Form. Sections 16 and 19	85% will pass these two sections. (Pass or Fail)	2nd year. Fall semester (Fall 2021) **(Class of 2022)**	Clinical Instructor	**100% pass**

	RADT 410. Laboratory Practical Rating Form. Question 1	80% of our students will be successful in this skill. Average of 4 points (Scale from 1 – 6)	1st year Fall Semester (Fall 2021) **(class of 2023)**	Laboratory Instructor	**100% scored 4 points or higher**
Students will practice written communication skills.					
	RADT 440. Advance Imaging Modalities. Students write a research paper on the Radiographic subspecialty of their choice	80% or higher. Utilizing scoring rubric. Based on scale from 1 to 100	2nd Year. Fall Semester (Fall 2021) **(Class of 2022)**	Class Instructor	**Avg = 97%** **High score = 100%** **Low score = 84%** **100% of the class scored 80% or higher**
	RADT 442.Radiographic Pathology. Students write a research paper on a pathology of their interest. Rubric categories Content #2 and #3 and Mechanics #1-#4	80% or higher. Utilizing scoring rubric. Based on scale from 1 to 100	2nd Year. Spring Semester (Spring 2022) **(Class of 2022)**	Class Instructor	**Average score 90.4** **Hi Score: 97** **Low Score: 80**

Goal #3: Students will use critical thinking and problem solving skills.					
Outcome	**Measurement Tool**	**Benchmark**	**Timeframe**	**Responsible Party**	**Results**
Students will manipulate technical factors for non-routine examinations.	**Clinical Coordinator Observation Form** (Question 8)- Random Sampling of three observation per student	Average score of 3.6 or higher (2.6 – 4 scale)	2nd Year. Spring semester (Spring 2022) **(Class of 2022)**	Clinical Coordinator	**Average=3.7** H=4 L=3.1 Note: 2 observations are performed during the semester
	Critique Form for Exam with Modify Projections due to patient's condition. Section Technical Factors	Average score of 7.2 or higher (1 – 9 scale)	2nd Year. Spring semester (Spring 2022) **(Class of 2022)**	Clinical Coordinator	**Avg=3.7** H=9 L=5.5
	Critique Form for Exam in the OR	Average score of 7.2 or higher (1 – 9 scale)	2nd Year. Spring semester (Spring 2022) **(Class of 2022)**	Clinical Coordinator	**Avg=9**
Students will adapt positioning for trauma patients.	**RADT 440. Advance Imaging Modalities**. **Exam #1**	Average score 80% or higher (100% scale)	2nd Year. Fall Semester (Fall 2021) **(Class of 2022)**	Course Instructor	**Avg = 84%** **High score = 98%** **Low score = 64%**
	RADT 420. Laboratory Practical -Trauma situations	Average score of 12 or higher. (15 point scale)	1st Year Spring Semester (Spring 2021)	Laboratory Instructor	**Avg=13.3** H=15 L=10

			(class of 2022)		

Goal #4: Students will understand the importance of professional growth and development.					
Outcome	**Measurement Tool**	**Benchmark**	**Timeframe**	**Responsible Party**	**Results**
Students will determine the importance of continued professional development.	**RADT. 468 Specialty Rotation** Students write a research paper on the importance of professional development.	Benchmark 3.5 Scale from 0 - 4	At the conclusion of the specialty rotation (Summer 2022) **(Class of 2022)**	Clinical Coordinator	**Avg=3.8** H=4 L=3.5
	RADT 440. Student Survey after interviewing 3 Technologist working in advance modalities	Benchmark = 7 Scale of 0 - 10	2nd year Fall Semester (Fall 2021) **(Class of 2022)**	Course Instructor	**Average 9.3**
Students will summarize the importance of attendance at professional meetings.					
	Survey evaluation of the importance of CSRT conference	Benchmark = 3 Scale of 0 - 5	2nd year Fall Semester (Fall 2021) **(Class of 2022)**	Program Director	

Goal #5: The program will graduate entry-level technologists.					
Outcome	**Measurement Tool**	**Benchmark**	**Timeframe**	**Responsible Party**	**Results**
Students will pass the ARRT national certification on the 1st attempt.	**ARRT 1st Time Pass Rates**	90% or higher	4 months after graduation. (Class of 2022)	Program Director	**71%**
Of those pursuing employment, students will be gainfully employed within 12 months post-graduation. Effective on 1/1/2014 the JRCERT job placement is to be evaluated after 12 months.	**Graduate Survey**	80% or higher	12 months after graduation (Class of 2022)	Program Director	**82%**
Students will complete the program within 150% of the program's length of 25 months.	**Retention Rate**	85% or higher	Upon graduation (Class of 2022)	Program Director	**100%**
Students will be satisfied with their education.	**Graduate Survey**	85% or higher will be satisfy.	12 months after graduation (Class of 2022)	Program Director	**91%**
Employers will be satisfied with the graduate's performance	**Employer Survey** **(Phone Survey)**	85% or higher	12 months after graduation (Class of 2022)	Program Director	

SEMESTER	CLASS	2021	2022	2023
First	RADT 428*	SP 20	SP 21	SP 22
Second	RADT 438*	SU 20	SU 21	SU 22
Third	RADT 418*	FA 20	FA 21	FA 22
Fourth	RADT 448	SP 21	SP 22	SP 23
Fifth	RADT 468*	SU 21	SU 22	SU 23
Sixth	RADT 458*	FA 21	FA 22	FA 23

*** These courses were altered due to the Covid 19- pandemic.**
i.e. RADT 428 is normally a second semester course but was converted to a first semester first rotation.