

**SAN DIEGO MESA COLLEGE
GUIDELINES AND RESPONSE SHEET FOR COMPLETION OF
PROGRAM REVIEW**

Academic Year: 2011-2012

Program/Service Area Name: Radiologic Technology

Name of Lead Writer(s): Lori Covington, M.S., R.T., Program Director/Asst. Professor

INSTRUCTIONS:

This document is designed to provide programs/service areas with guidance while completing the Program Review Guidelines and Response Sheet and Goals Matrix. Please respond as completely as possible in the spaces provided. **These spaces are designed to automatically increase in size as responses are typed in.**

These questions provide an opportunity to evaluate the program or service area's current status, and to shape and implement its future. The report is also an opportunity to enumerate any obstacles the program or service area may be facing, as well as identification of needs. Formulation of goals occurs as this assessment is done. Place these goals on the included Program Review Goal Matrix.

Program or Service Area Description: *Questions 1 - 3*

Provide a complete description of the program or service area. When responding, the following information should be reported.

1. Provide the program or service area mission

Criteria
The mission of the Radiologic Technology Program is to prepare qualified medical imaging practitioners who uphold the highest level of ethical patient care while demonstrating competent technical practices.
Response: Please indicate if the statement has been updated within the last year and why.
NO UPDATE

2. Provide degrees and certificates that are offered by the program (for Instructional Programs)

Criteria: Attach curriculum grid and provide the link to the catalog pages and website.

Associate Degree

CURRENT: http://www.sdccdcurricu.net/SDCCD2/reports/degree_report.cfm?programs_id=2096

PENDING: http://www.sdccdcurricu.net/SDCCD2/reports/degree_report.cfm?programs_id=2319

Certificate

CURRENT: http://www.sdccdcurricu.net/SDCCD2/reports/degree_report.cfm?programs_id=2019

PENDING: http://www.sdccdcurricu.net/SDCCD2/reports/degree_report.cfm?programs_id=2320

Response: Are all course outlines in the program/department current? YES NO If not, please address any courses that are not current in their review cycle. Please indicate changes if any have occurred to course offerings and/or the degrees/certificates within the last year.

- The associate degree and certificate programs, and each course, are all in their final tech review step in the curriculum approval process. Expected approval in Spring 2012.
- All courses renumbered, per articulation officer. Physics 100 replaced Psychology 101 as a prerequisite to reduce attrition rate. Fluoroscopy added to curriculum (in place of CT/MR, which was an advanced course). Fluoroscopy is required by technologists in CA. Advanced imaging classes moved out of program into contract education (ETi).

3. Provide service area description (for Service Areas) N/A

Program or Service Area Assessment: Questions 4- 6

Utilizing program/service area faculty and staff knowledge, advisory committees' input, internal and external research, changes in the program/service area, please respond to the following three questions. It is recommended that responses to questions 4, 5 and 6 be limited to no more than 5 pages.

4. Describe the current state of the program/service area. How does the program/service area address the following at Mesa?

Criteria

MESA COLLEGE VISION:

San Diego Mesa College shall be a key force in our community to educate our students to shape the future.

MESA COLLEGE MISSION:

To inspire and enable student success in an environment that is strengthened by diversity, is responsive to our communities, and fosters scholarship, leadership and responsibility.

MESA COLLEGE GOALS:

1. To deliver and support exemplary teaching and learning in the areas of transfer education, associate degrees, career and technical education, certificates, and basic skills.
2. To provide a learning environment that maximizes student access and success, and employee well-being.
3. To respond to and meet community needs for economic and workforce development.
4. To cultivate an environment that embraces and is enhanced by diversity.

MESA COLLEGE PERFORMANCE INDICATORS:

Equity/Access, Engagement/Retention, Persistence, Success, Institutional Effectiveness

RADT PROGRAM OUTCOMES & ASSESSMENT

1. Communicate effectively with patients and other healthcare professionals.
2. Demonstrate independent critical thinking and problem solving skills.
3. Apply the knowledge and skills to be clinically competent.
4. Exhibit or demonstrate the skills of ethical and professional radiologic technologists.

Response : Analyze the program/service area's Strengths, Challenges, and External Influences

How the RADT program contributes to Mesa College's *VISION*

- In the last few years, the Radiologic Technology (RADT) Program has become the key force for almost all imaging education needs in the San Diego community.
 - We offer general diagnostic, fluoroscopy and mammography within our associate and certificate programs, as well as developing sustainable advanced modality programs (Computerized Tomography (CT), Magnetic Resonance (MR), Cardiac Interventional (CI) and Vascular Interventional (VI)) through contract education (ETi).
 - In 2011, we successfully completed one of the largest American Reinvestment & Recovery Act grants through the State Chancellor's office (\$400,000).
- CHALLENGES:
 - Competition with proprietary institutions for regional clinical placements has reduced program capacity.

How the RADT program contributes to Mesa College's *GOAL #1: CAREER TECHNICAL EDUCATION CERTIFICATION*

- 100% of the graduates from the RADT program pass the American Registry of Radiologic Technologists (ARRT) exam.

How the RADT program contributes to Mesa College's *GOAL #2: STUDENT ACCESS & SUCCESS*

- All qualified applicants are selected through a computer-generated, random lottery process each year
- 55% of the 2011 graduates scored in the top 10% of the nation on the ARRT exam
- 37% of the 2011 graduates scored in the top 3% of the nation on the ARRT exam
- Approximately 15% of our students receive scholarships annually and are recognized at the college scholarship banquet
- We have been able to recruit high-level adjunct faculty who are leaders and experts in their field to teach in our program.
- Success rate, as the percentage of students who completed a course with a grade of A, B, C, or P out of total enrollments as of census.
 - RADT program 2010 = 92%
 - Mesa College 2010 = 67%

American Registry of Radiologic Technologists (ARRT) Exam Data

Year	Radiation Protection	Equip / QC	Image Production/Evaluation	Rad. Procedures	Patient Care	Total Mean	Nat'l %ile Rank	% Pass
2002	8.8	8.7	8.5	8.6	8.6	85.2	60	92
2003	8.7	7.9	8.2	8.4	8.6	83.6	53	81
2004	8.7	7.9	8.5	8.3	8.6	83.9	53	89
2005	8.5	8.3	8.3	8.2	8.6	83.5	53	92
2006	8.9	8.6	8.6	8.6	9	87	72	98
2007	9.1	8.8	8.6	8.6	9	87.9	78	100
2008	9	8.6	8.8	8.4	8.8	87	72	98
2009	9.1	8.8	9	8.6	9	89	84	100
2010	9.2	8.6	8.8	8.9	8.9	89	84	100
2011	9.3	9	9	8.9	9.1	90	88	100

How the RADT program contributes to Mesa College's **GOAL #3: WORKFORCE DEVELOPMENT**

- At least 75% of the RADT graduates obtain employment in Radiologic Technology within 6 months of graduation.
 - **CHALLENGE: proprietary institutions flood regional markets with graduates, therefore our graduate employment rate has dropped almost 20% in the last five years and is at minimum accreditation level (75%).**
- The program responds to the community by working directly with high level imaging administrators in our advisory committee to make changes or additions to the program curriculum, clinical training or advanced program development.
 - Once per year as group on campus: one-on-one periodically throughout year at hospitals onsite
- Many of our graduates continue their education beyond the program into bachelor degrees and/or advanced imaging.

How the RADT program contributes to Mesa College's *GOAL #4: DIVERSITY*

- Data for RADT (Fall 2010), compared to Mesa College (Fall 2010) and San Diego Census (2010; <http://2010.census.gov/2010census/index.php>) is as follows. American Registry of Radiologic Technologists (ARRT) national data are provided for gender.
 - 45% Male (Mesa 47%, ARRT 27%)
 - 55% Female (Mesa 53%, ARRT 73%)
 - 2% African American (Mesa 1%, San Diego 7%)
 - 0% American Indian (Mesa 1%, San Diego 1%)
 - 14% Asian (Mesa 14%, San Diego 10%)
 - 9% Filipino (Mesa 5%, San Diego 6%)
 - 12% Latino (Mesa 25%, San Diego 29%)
 - 54% White (Mesa 37%; San Diego 59%)
 - 9% Other (Mesa 5%, San Diego 12%)
- SUMMARY:
 - Program ethnicity data match San Diego demographics fairly closely.
 - Program genders are balanced significantly more than the national gender balance for our profession.

RADT PROGRAM OUTCOMES & ASSESSMENT:

Survey from Clinical Affiliates Scored Graduates (2011) According to the Program Goals/Outcomes:

1. Communicate effectively with patients and other healthcare professionals
 - 83% Excellent
 - 17 % Average
 - 0% Less than Average
2. Demonstrate independent critical thinking and problem solving skills.
 - 67% Excellent
 - 33 % Average
 - 0% Less than Average
3. Apply the knowledge and skills to be clinically competent.
 - 50% Excellent
 - 50% Average
 - 0% Less than Average

4. Exhibit or demonstrate the skills of ethical and professional radiologic technologists.
 - 67% Excellent
 - 33 % Average
 - 0% Less than Average

CHALLENGES

- Consistency in clinical education across clinical affiliates
- Bridging didactic and clinical education
- Student critical thinking
- Curriculum for radiographic procedures too condensed; needs to be expanded

Taskstream assessments still in development/data entry. Program assessment in each area consistently monitored for accreditation and so we are in the process of making Taskstream match our Joint Review accreditation assessment.

5. What does the program envision for itself in the next five years?

Criteria

Describe what the program/service area will look like in the next five years.

Response

1. Venipuncture class added (in process)
2. Advanced Program Development: Vascular Interventional
3. Advanced Program Development: Computerized Tomography

1. What are the missing program/service area needs necessary to accomplish the five year vision?

Criteria

Identify the missing program/service area needs necessary for the next five years.

Response

Matching needs to #1-6 above:

1. Increased budget for venipuncture class supplies
2. Continued maximum reassigned time for Program Director
3. Continued maximum reassigned time for Program Director

Program Review Goal Matrix

STATUS: Academic Year 2011-2012

☒ New ☐ Progress Made ☐ Obstacles Encountered ☐ Changes Made ☐

Completed ☐ Deleted

SMART Goal	Implementation of <u>Vascular Interventional</u> course through contract education (ETI) <u>by Spring 2013</u>				
Rationale	Hospitals will be required to have their vascular interventional technologists certified by 2013.				
Plan/Activity	Secure clinical sites, develop curriculum and budgetary framework.				
Time Frame	Implement by 2013				
Person(s) Assigned	Lori Covington				
Non-Budgetary Needs	Administrative advocacy of community college partnerships with clinical affiliates.				
Funding Source(s): <i>Select any and all that apply.</i> http://www.sdmesa.edu/instruction/prog-rev/lead-writer.cfm					
<input type="checkbox"/> Classified Staff <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Faculty Position <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Equipment <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Facilities <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Perkins <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Supplies Materials <i>Attach sheet addressing criteria in Table 1</i>
Resources	Description			Estimated Cost	Cost to Sustain
Human 1000/2000/3000	Program Director reassigned time and instructor salary provided through contract education student fees; no burden on Mesa budget				
Supplies 4000/5000	Supplies provided through contract education student fees; no burden on Mesa budget				
Equipment 6000	Equipment provided through contract education student fees; no burden on Mesa budget				
Facilities	Facility (room rental) fees provided through contract education student fees; no burden on Mesa budget				
TOTAL	**District revenue through contract education**				

Current Assessment	NEW GOAL
Related SLOs/AUOs: <i>Select all that apply.</i>	
X Institutional ILO(s) <input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Communication <input type="checkbox"/> Self-Awareness & Interpersonal Skills <input type="checkbox"/> Personal Actions & Civic Responsibility <input type="checkbox"/> Global Awareness X Technological Awareness	
X Program SLO(s): <i>If selected, please specify:</i> Apply the knowledge and skills to be clinically competent. Demonstrate independent critical thinking and problem solving skills.	
<input type="checkbox"/> Course SLO(s): <i>If selected, please specify:</i>	
<input type="checkbox"/> Service Area SLOs or Administrative Unit Outcomes (AUOs): <i>If selected, please specify:</i>	
Related College Goals: <i>Select all that apply. (Link to College Goals: http://www.sdmesa.edu/mission-statement/index.cfm)</i> <input checked="" type="checkbox"/> Goal 1 <input type="checkbox"/> Goal 2 X Goal 3 <input type="checkbox"/> Goal 4	

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Program Review Goal Matrix

STATUS: Academic Year 2011-2012
Completed ☐ Deleted

☒ New ☐ Progress Made ☐ Obstacles Encountered ☐ Changes Made ☐

SMART Goal	Implementation of Computerized Tomography course through contract education (ETI) by Fall 2013				
Rationale	Hospitals will be required to have their vascular interventional technologists certified by 2013.				
Plan/Activity	Secure clinical sites, develop curriculum and budgetary framework.				
Time Frame	Implement by 2013				
Person(s) Assigned	Lori Covington				
Non-Budgetary Needs	Administrative advocacy of community college partnerships with clinical affiliates.				
Funding Source(s): <i>Select any and all that apply.</i> http://www.sdmesa.edu/instruction/prog-rev/lead-writer.cfm					
<input type="checkbox"/> Classified Staff <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Faculty Position <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Equipment <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Facilities <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Perkins <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Supplies Materials <i>Attach sheet addressing criteria in Table 1</i>
Resources	Description			Estimated Cost	Cost to Sustain
Human 1000/2000/3000	Program Director reassigned time and instructor salary provided through contract education student fees; no burden on Mesa budget				
Supplies 4000/5000	Supplies provided through contract education student fees; no burden on Mesa budget				
Equipment 6000	Equipment already onsite in Allied Health Building (S-106). Need extension of service plan through Radiographic Equipment Services to maintain \$280,000 CT Scanner			Unknown; District Office needs to contact RES	

Facilities	Facility (room rental) fees provided through contract education student fees; no burden on Mesa budget		
TOTAL	**District revenue through contract education**		
Current Assessment	NEW GOAL		
Related SLOs/AUOs: <i>Select all that apply.</i>			
X Institutional ILO(s) <input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Communication <input type="checkbox"/> Self-Awareness & Interpersonal Skills <input type="checkbox"/> Personal Actions & Civic Responsibility <input type="checkbox"/> Global Awareness X Technological Awareness			
X Program SLO(s): <i>If selected, please specify:</i> Apply the knowledge and skills to be clinically competent. Demonstrate independent critical thinking and problem solving skills.			
<input type="checkbox"/> Course SLO(s): <i>If selected, please specify:</i>			
<input type="checkbox"/> Service Area SLOs or Administrative Unit Outcomes (AUOs): <i>If selected, please specify:</i>			
Related College Goals: <i>Select all that apply. (Link to College Goals: http://www.sdmesa.edu/mission-statement/index.cfm)</i> <input checked="" type="checkbox"/> Goal 1 <input type="checkbox"/> Goal 2 X Goal 3 <input type="checkbox"/> Goal 4			

05/31/11

Program Review Goal Matrix

STATUS: Academic Year 2011-2012 ☒ New ☐ Progress Made ☐ Obstacles Encountered ☐ Changes Made
☐ Completed ☐ Deleted

SMART Goal	Implementation of <u>Venipuncture Course</u> in general diagnostic (RADT) program by <u>Summer 2013</u>				
Rationale	Required by the state of California, CCR, Title 17 by 2013.				
Plan/Activity	Proposed course in CurricUNET; budget plan; appoint instructor				
Time Frame	Summer 2013				
Person(s) Assigned	Lori Covington				
Non-Budgetary Needs					
Funding Source(s): <i>Select any and all that apply.</i> http://www.sdmesa.edu/instruction/prog-rev/lead-writer.cfm					
<input type="checkbox"/> Classified Staff <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Faculty Position <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Equipment <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Facilities <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Perkins <i>Attach sheet addressing criteria in Table 1</i>	<input type="checkbox"/> Supplies Materials <i>Attach sheet addressing criteria in Table 1</i>
Resources	Description			Estimated Cost	Cost to Sustain
Human 1000/2000/3000	Instructor to teach two sections (0.15 FTE each) for up to 40 students			0.30 FTE per year	0.30 FTE per year
Supplies 4000/5000	Consumable venipuncture supplies (needles, sponges, sharps containers, etc)			\$1500	\$800
Equipment 6000	None				
Facilities	Use of MEDA laboratory			1500	800
TOTAL					
Current Assessment	NEW GOAL				

Related SLOs/AUOs: <i>Select all that apply.</i>			
X Institutional ILO(s) <div> <div>X Critical Thinking</div> <div>X Communication</div> <div>X Self-Awareness & Interpersonal Skills</div> <div><input type="checkbox"/> Personal Actions & Civic Responsibility</div> <div><input type="checkbox"/> Global Awareness</div> <div>X Technological Awareness</div> </div>			
X Program SLO(s): <i>If selected, please specify:</i> Apply the knowledge and skills to be clinically competent. Demonstrate independent critical thinking and problem solving skills.			
<input type="checkbox"/> Course SLO(s): <i>If selected, please specify:</i>			
<input type="checkbox"/> Service Area SLOs or Administrative Unit Outcomes (AUOs): <i>If selected, please specify:</i>			
Related College Goals: <i>Select all that apply. (Link to College Goals: http://www.sdmesa.edu/mission-statement/index.cfm)</i> <div> <div>X Goal 1</div> <div><input type="checkbox"/> Goal 2</div> <div>X Goal 3</div> <div><input type="checkbox"/> Goal 4</div> </div>			

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