

UNIVERSITY OF PUERTO RICO
 MEDICAL SCIENCES CAMPUS
 SCHOOL OF HEALTH PROFESSIONS
 RADIOLOGIC TECHNOLOGY PROGRAM
 PROGRAM OUTCOMES ASSESSMENT PLAN
 2015-2016

Goal 1.0 Students /Graduates will be clinically competent with the knowledge, skills and attitudes that enables them to adequately meet the radiographer needs of the communities they serve.

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|--|--|---|---|----------------------|---|
| 1. Students will demonstrate positioning skills. | Student Clinical Indirect Evaluation Form (Area D: 7-8 and E: 1-9) | Third year students will score an average of 3.25 or higher in positioning skills (4 point scale) in the Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form. | Second semester, second year (Direct Evaluation TERA-1025) | Clinical Coordinator | Benchmark met: 89% of second year students obtained a score of 3.0 or higher in positioning skills. |
| | Student Clinical Direct Evaluation Form (Area E: 1-10 and D 7-10) | Second year students will score an average of 3.0 or higher in positioning skills (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form. | First semester, third year (Direct and Indirect Evaluation TERA-2061) | Clinical Instructor | Benchmark met: 92.9% of third year students obtained a score of 4.0 in positioning skills. |
| | Clinical Faculty Evaluation Form (Items 15,16,17,23) | | Second semester, third year (Indirect Evaluation TERA-2062) | Program Faculty | Benchmark met: 97.6% the third year's student scored an average of 3.25 or higher in positioning skills. |
| | | | End of each semester (Clinical Faculty Evaluation TERA 1025, TERA 2061 and TERA 2062) | | TERA-1025 82% of second year students scored an average of 3.25 or higher in positioning skills. TERA-2061 92.5 % of third year students |

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|----------|--|--|---|------------------------|--|
| | | | | | <p>obtained a score of 3.25 or higher in positioning skill. TER A 2062 100% of third year students obtained a score of 3.25 or higher in positioning skills.</p> |
| | <p>Practice Test Rubric (Area D:1-14)</p> | <p>Student will score an average of 2.0 or higher (3 point scale) in positioning skills.</p> | <p>TERA-1013 End of first semester (Second year). TERA-1014 End of second semester (Second year). TERA-2010 End of first semester (Third year).</p> | <p>Program Faculty</p> | <p>Benchmark met: 88% of students scored an average of 2.0 or higher (3 point scale) in positioning skills. (TERA-1013) 86% of students scored an average of 2.0 or higher (3 point scale) in positioning skills (TERA-1014) 80% of students scored an average of 2.0 or higher (3 point scale) in positioning skills (TERA-2010)</p> |

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|---|---|--|---|--|--|
| <p>2. Students will be able to properly operate the radiographic equipment.</p> | <p>Student Clinical Indirect Evaluation Form (Area F: 1-7)</p> <p>Student Clinical Direct Evaluation Form (Area F: 1-10)</p> <p>Practice Test Rubric (Area A: 2, 5-7 and D: 2, 6,7,11,13)</p> | <p>Second year students will score an average of 3.0 or higher on the management of radiographic equipment (4 point scale) in the Student Clinical Direct and Indirect Evaluation Forms</p> <p>Third year students will score an average of 3.25 or higher on the management of radiographic equipment (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms</p> <p>Students will score an average of 2.0 or higher (3 point scale) operating the radiographic equipment.</p> | <p>Second semester, second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct and Indirect Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> <p>TERA-1013 End of first semester (Second year) TERA-1014 End of second semester (Second year).</p> <p>TERA-2010 End of first semester (Third year).</p> | <p>Clinical Coordinator</p> <p>Clinical Instructor</p> <p>Program Faculty</p> <p>Program Faculty</p> | <p>Benchmark met: 85% of second year students obtained a score of 3.0 in the management of radiographic equipment.</p> <p>Benchmark met: 93.5% of third year's students obtained a score of 3.25 or higher in the management of radiographic equipment.</p> <p>Benchmark met: 95.8% the third year student obtained a score of 3.25 or higher in the management radiographic equipment.</p> <p>Benchmark met: 89% of students of scored an average of 2.0 or higher (3 point scale) operating the radiographic equipment. (TERA-1013). 86% of students scored an average of 2.0 or higher (3 point scale) operating the radiographic equipment. (TERA-1014)</p> <p>95.9% students scored an average of 2.0 or higher (3 point scale) operating the radiographic equipment (TEA-2010)</p> |

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|---|---|--|---|--|---|
| 3. Students will apply radiation protection measures. | <p>Student Clinical Direct Evaluation Form (Area G: 1-5)</p> <p>Student Clinical Indirect Evaluation Form (Area G: 1-3)</p> <p>Practice Test Rubric (Area C: 1-7)</p> | <p>Second year students will score an average of 3.0 or higher (4 point scale) on radiation protection measures.</p> <p>Third year students will score an average of 3.25 or higher (4 point scale) on radiation protection measures.</p> <p>Students will score an average of 2.0 or higher (3 point scale) on safety and radiation protection.</p> | <p>Second semester, Second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct and Indirect Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> <p>TERA-1013 End of first semester (Second year).</p> <p>TERA-1014 End of second semester (Second year).</p> <p>TERA-2010 End of first semester (Third year).</p> | <p>Clinical Coordinator</p> <p>Clinical Instructor</p> <p>Program Faculty</p> <p>Program Faculty</p> | <p>Benchmark met: 98.5% of second year students obtained a score of 3.0 or higher in applying radiation protection measures.</p> <p>Benchmark met: 96.8% of third year students obtained a score of 3.25 or higher in applying radiation protection measures.</p> <p>Benchmark met: 97% of third year student obtained a score of 3.25 or higher in applying radiation protection measures.</p> <p>Benchmark met: 84% of students scored an average of 2.0 or higher (3 point scale) on safety and radiation protection. (TERA-1013)</p> <p>Benchmark met: 92% of students scored an average of 2.0 or higher (3 point scale) on safety and radiation protection. (TERA-1014)</p> <p>Benchmark met: 92.6% of students scored an average of 2.0 or higher (3 point scale) on safety and radiation protection. (TERA-2010).</p> |

Goal 2.0 Students /Graduates will use critical thinking to problem solving

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|--|--|---|---|--|--|
| 1. Students will apply theory and practical knowledge to perform portable radiography to meet patient's needs. | Portable Unit Clinical Practice Evaluation Form | All students must pass the portable procedure evaluation with a minimum 75%. | End of first semester, third year (TERA 2061). End of second semester, third year (TERA 2062). | Clinical Instructor | In progress (analysis Portable unit evaluation form). |
| 2. Students will adequately estimate the radiographic exposure factors. | <p>Student Clinical Direct Evaluation Form (Area F:1-10)</p> <p>Student Clinical Indirect Evaluation Form (Area: F: 1-7)</p> <p>Clinical Faculty Evaluation Form (Item 22)</p> | <p>Second year students will score an average of 3.0 or higher in adequately estimate the radiographic exposure factors (4 point scale) in Student Clinical Direct Evaluation Forms.</p> <p>Third year students will score an average of 3.25 or higher in adequately estimate the radiographic exposure factors (4 point scale) in Student Clinical Direct Evaluation Forms.</p> | <p>Second semester, second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> <p>End of each semester (Clinical Faculty Evaluation TERA 1025, TERA 2061 and TERA 2062)</p> | <p>Clinical Coordinator</p> <p>Clinical Instructor</p> <p>Program Faculty</p> <p>Program Faculty</p> | <p>Benchmark met: 83.9% of second year students obtained a score of 3.0 or higher in estimating the radiographic exposure factors.</p> <p>Benchmark met: 97.3% of third year students obtained a score of 3.25 or higher estimating the radiographic exposure factors.</p> <p>Benchmark met: 94.9% of third years students obtained a score of 3.25 or higher in estimating the radiographic exposure factors.</p> <p>TERA 1025 95% of second year students obtained a score of 3.0 or higher in estimating the radiographic factors.</p> <p>TERA 2061 95% of third year students obtained a score of 3.25 or higher in estimating the radiographic factors.</p> <p>TERA 2062 100% of third year students obtained a score of 3.25 or higher in estimating the radiographic exposure factors.</p> |

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|--|---|--|---|---|--|
| 3. Students will correctly evaluate the quality of the radiographic image. | <p>Student Clinical Direct Evaluation Form (Area H:1-10)</p> <p>Student Clinical Indirect Evaluation Form (Area: H: 1-8)</p> <p>Clinical Faculty Evaluation Form (Items 24-25)</p> | <p>Second year students will score an average of 3.0 or higher in correctly evaluate the quality of the radiographic image (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> <p>Third year students will score an average of 3.25 or higher in correctly evaluate the quality of the radiographic image (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> | <p>Second semester, second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct and Indirect Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> <p>End of each semester (Clinical Faculty Evaluation TERA 1025, TERA 2061 and TERA 2062)</p> | <p>Clinical Coordinator</p> <p>Clinical Instructor</p> <p>Program Faculty</p> <p>Program Faculty</p> | <p>Benchmark met: 76.7% of second year students obtained a score of 3.0 or higher in evaluation the quality of radiographic image.</p> <p>Benchmark met: 95% of third year students obtained a score of 3.25 or higher in evaluating the quality of the radiographic image.</p> <p>Benchmark met: 87.6% of third years students obtained a score of 3.25 or higher in evaluation the quality of the radiographic image.</p> <p>TERA 1025 65% of second year students obtained a score of 3.0 or higher in evaluating the quality of radiographic image. TERA 2061 73.7 % of third year students obtained a score of 3.25 or higher in evaluating the quality of radiographic image. TERA 2062 82% of third year students obtained a score of 3.25 or higher in evaluating the quality of radiographic image.</p> |

Goal 3.0 Students/Graduates will communicate effectively with patients and other professionals in the interprofessional health care team.

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|--|--|---|---|--|---|
| <p>1. Students will demonstrate satisfactory communication skills.</p> | <p>Students Clinical Direct Evaluation Form (Area B: 6, 7, 10 and D: 1, 2, 3, 5, 7, 10)</p> <p>Students Clinical Indirect Evaluation Form (Area B:4, 9 and D:1, 2, 3, 5, 8)</p> <p>Practice Test Rubric (Area B: 1-8 and D:1,12)</p> | <p>Second year students will score an average of 3.0 or higher in communication skills in clinical and didactic courses (4 point scale) in the Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> <p>Third year students will score an average of 3.25 or higher communication skills in clinical and didactic courses (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> <p>Students will score an average of 2.0 or higher (3 point scale) on oral communication skills.</p> | <p>Second semester, second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct and Indirect Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> <p>TERA-1013 End of first semester (Second year).</p> <p>TERA-1014 End of second semester (Second year).</p> <p>TERA-2010 End of first semester (Third year).</p> | <p>Clinical Coordinator</p> <p>Clinical Instructor</p> <p>Program Faculty</p> <p>Program Faculty</p> | <p>Benchmark met: 80% of second year students obtained a score of 3.0 or higher in communication skills.</p> <p>Benchmark met: 90% of third year students obtained a score of 3.25 or higher in communication skills.</p> <p>Benchmark met: 86.6% of third year's students obtained a score of 3.25 or higher in communications skills.</p> <p>Benchmark met: 92% of students scored an average of 2.0 or higher (3 point scale) in communication skills. (TERA-1013).</p> <p>Benchmark met: 93% of students scored an average of 2.0 or higher (3 point scale) in communications skills. (TERA-1014).</p> <p>Benchmark Met: 83% of students scored an average of 2.0 or higher (3 point scale) in communication skills.</p> |

Goal 3.0 Students/Graduates will communicate effectively with patients and other professionals in the interprofessional health care team.

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|---|--------------------|--|---|-------------------------------------|--|
| 2. Students will demonstrate satisfactory written and oral communications skills. | Reflective journal | 100% of students will successfully complete three reflective journals at the end of their clinical practice. | End of second semester, second year (TERA 1025) End of first and second semester, third year (TERA 2061 and TERA 2062) | Program Faculty | Benchmark met: 100% of students demonstrated oral and written communications skills in their clinical practice. |
| | Presentations | Students will score an average of 80% or better on the written and oral presentations. | During didactics courses TERA-1015,TERA -1035, TERA -2016, TERA -1014, TERA-2010 | Program Faculty | Benchmark met: 85% of students scored an average of 80% or better on written and oral presentations. |
| 3. Graduates will demonstrate satisfactory communications skills. | Graduate Survey | 80% of returned graduate's survey reflects a punctuation of 3 points (4 point scale) or higher in the development of communication skills. | Annually | Program Faculty or Program Director | Benchmark met: 85.7% of students indicated that they achieved total domain of oral communication and redaction in Spanish. |
| | Employer Survey | 90% of returned employer's survey will indicate that they are satisfied with graduate's communications skills. | Every two years | Program Faculty or Program Director | Benchmark met: 100% of employers expressed that they were very satisfied or satisfied with graduate's communications skills. |

Goal 4.0 Students/Graduates will practice ethical principles to demonstrate human sensibility, ethical values, social consciences, professional growth and professionalism in all working endeavors.

| Outcomes | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results |
|--|---|---|---|-------------------------------------|--|
| 1. Students will understand the importance of ethical and professional behavior | <p>Student Clinical Direct Evaluation Form (Area A: 1-4, B:1-11, D:1-10, G: 1-5)</p> <p>Student Clinical Indirect Evaluation Form (Area A: 1-4, B:1-10, D: 1-8, G: 1-3)</p> | <p>Second year students will score an average of 3.0 or higher in ethical and professional behavior (4 point scale) in the Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> <p>Third year students will score an average of 3.25 or higher in ethical and professional behavior (4 point scale) in Student Clinical Direct and Indirect Evaluation Forms and in the Clinical Faculty Evaluation Form.</p> | <p>Second semester, second year (Direct Evaluation TERA-1025)</p> <p>First semester, third year (Direct and Indirect Evaluation TERA-2061)</p> <p>Second semester, third year (Indirect Evaluation TERA-2062)</p> | Clinical Instructor | <p>Benchmark met: 95% of second year students obtained a score of 3.0 or higher in ethical and professional behavior.</p> <p>Benchmark met: 96.6% of third year students obtained a score of 3.25 or higher in ethical and professional behavior.</p> <p>Benchmark met: 92% of third year students obtained a score of 3.25 or higher in ethical and professional behavior.</p> |
| 2. Graduates will pursue continued professional development and lifelong learning. | Graduate Survey | 30% or more of graduates will pursue additional training or formal education. | Annually | Program Faculty or Program Director | Benchmark met: 60% of graduates are studying for achieve a higher degree. |
| 3. Students will be prepared for the employment interview process. | Job interview workshop Professional Resume | 100% of student will attend the job interview workshop and prepare a professional resume. | Second semester, third year (TERA 2062) | Program Faculty | Benchmark met: 100% of the students attended the job interview workshop and prepared their resume. |

