### Course SLO Assessment Report - 4-Column

El Camino College

### El Camino: Course SLOs (HSA) - Respiratory Care

<table>
<thead>
<tr>
<th>Course SLOs 1 and ctt.unitid = 735</th>
<th>Assessment Methods &amp; Standard and Target for Success / Tasks</th>
<th>Results</th>
<th>Action &amp; Follow-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course SLO Assessment Cycle:</td>
<td>Assessment Method Description: Comprehensice final exam on FIO2 management using guidelines presented in class and found in text and other links provided during class.</td>
<td>12/10/2014 - Initial enrollment was at 33 with 22 students left eligible to take the final exam. Though attrition was at 33%, 91% of the remaining student population was able to complete the final exam and achieve a score of greater than 70%. Achievement of the standard and target success indicates that there was mastery of learning objectives by 91% of the class. This percentage indicates that teaching strategies employed by the faculty are effective in helping the students in their mastery. This class is a pre-clinical class. Students enrolled in this class are in the process of establishing personal interest and identification of aptitude in the field of respiratory care. Therefore, the standard is based on those completing the class and their score on the final exam indicating mastery of the learning objectives set down for the class.</td>
<td>12/10/2015 - Review teaching strategies and make adjustments as necessary to have continued achievement of the standard.</td>
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<tr>
<td>ECC: RC 170 - Introduction to Respiratory Care Sciences and the Profession - SLO #1 Appropriate and Competent FIO2 Management - Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.</td>
<td>Assessment Method: Exam/Test/Quiz Standard and Target for Success: 80% of students who complete the course will pass the final exam with a grade of 70% or higher.</td>
<td>02/05/2015 - Fourteen students took this exam with twelve achieving 70% or higher. Achievement of the standard and target success indicates that there was mastery of learning objectives by 86% of the class. This percentage indicates that teaching strategies employed by the faculty are effective in helping the students in their mastery. This class is a pre-clinical class. Students enrolled in this class are in the process of establishing personal interest and identification of aptitude in the field of respiratory care. Therefore, the standard is based on those completing the class and their score on this exam indicating mastery of the learning objectives set down for the class.</td>
<td>02/05/2016 - Review teaching strategies and make adjustments as necessary to maintain standard.</td>
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<tr>
<td>Course SLO Assessment Cycle:</td>
<td>Assessment Method Description: oral examination describing oxygen management of a patient on nasal cannula whose physical signs indicate the need for 02 adjustments.</td>
<td>03/03/2015 - 7:53 PM Generated by TracDat a product of Nuventive.</td>
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<td>Assessment Method: Exam/Test/Quiz Standard and Target for Success: 80% of students who complete the course will pass this exam with a grade of 70% or higher.</td>
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<td>Course SLO Status: Active</td>
<td>Standard Met? : Yes</td>
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**Course SLOs 1 and ctt.unitid = 735**

- **Assessment Methods & Standard and Target for Success / Tasks**
  - **Assessment Method Description:** Comprehensive final exam on FIO2 management using guidelines presented in class and found in text and other links provided during class.
  - **Assessment Method:** Exam/Test/Quiz
  - **Standard and Target for Success:** 80% of students who complete the course will pass the final exam with a grade of 70% or higher.

**Results**

- **12/10/2014 - Initial enrollment was at 33 with 22 students left eligible to take the final exam. Though attrition was at 33%, 91% of the remaining student population was able to complete the final exam and achieve a score of greater than 70%. Achievement of the standard and target success indicates that there was mastery of learning objectives by 91% of the class. This percentage indicates that teaching strategies employed by the faculty are effective in helping the students in their mastery. This class is a pre-clinical class. Students enrolled in this class are in the process of establishing personal interest and identification of aptitude in the field of respiratory care. Therefore, the standard is based on those completing the class and their score on the final exam indicating mastery of the learning objectives set down for the class.**

**Action & Follow-Up**

- **12/10/2015 - Review teaching strategies and make adjustments as necessary to have continued achievement of the standard.**

**Faculty Assessment Leader:** Roy Mekaru

**Faculty Contributing to Assessment:** Doug Mizukami
### Course SLO Assessment Cycle: 2014-15 (Fall 2014)

**Input Date:** 11/29/2013  
**Course SLO Status:** Active

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<td>Student will be given an oral examination during a patient simulation in the RC lab. The scenario will include patient condition, vital signs, and other pertinent data and the student will need to manage the patient's FI02 needs based on this data.</td>
<td>11/04/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual ventilator patients at various clinical sites where the ventilator patients well-being is of the highest importance. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.</td>
<td>11/17/2015 - Will monitor student performance associated with oral examination to see if changes in technology maybe affecting overall performance. Possible teaching strategies include use of most current software training tools designed specifically for respiratory care such as Decision Simulation Software which allows for usage in the greatest amount of classes. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.</td>
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### Standard Met? :  
Yes

**Semester and Year Assessment Conducted:** 2014-15 (Fall 2014)  
**Faculty Assessment Leader:** Roy Mekaru  
**Faculty Contributing to Assessment:** Doug Mizukami

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**Reviewer's Comments:**  
This class will graduate in the spring of 2015

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11/13/2013 - The records in data arc indicate that the standard was met successfully. All 18 students passed this skill.  
**Standard Met? :** Yes  
**Semester and Year Assessment Conducted:** 2013-14 (Fall 2013)  
**Faculty Assessment Leader:** Roy Mekaru  
**Faculty Contributing to Assessment:** Taryn Parker, Doug Mizukami, Raymund Adoc

**Action Category:** Teaching Strategies

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02/12/2014 - review questions on oral examination to insure appropriateness and proper level of difficulty for continued success of students.

**Action Category:** Teaching Strategies
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| **ECC: RC 288 - Fund Pulmonary Function Testng** - **SLO #1 Appropriate and Competent PFT** Administration - Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent clinical competencies for performing basic bedside Pulmonary Function Testing found in the section of the Data Arc system for clinical practice.  
Course SLO Assessment Cycle:  
2014-15 (Fall 2014)  
Input Date:  
11/29/2013  
Course SLO Status:  
Active | **Assessment Method Description:** oral examination describing volume testing of COPD patient whose ABG gas indicates the need for 02 adjustments.  
**Assessment Method:** Exam/Test/Quiz  
**Standard and Target for Success:** Achieve 100% score on the oral examination. 100% of all participants must meet the standard in two attempts. | 11/17/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual volume measurements at various clinical sites where the patients well-being during testing is of the highest importance.  
The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.  
**Standard Met? :** Yes  
**Semester and Year Assessment Conducted:**  
2014-15 (Fall 2014)  
**Faculty Assessment Leader:**  
Roy Mekaru  
**Faculty Contributing to Assessment:**  
Vicki Robertson, Doug Mizukami, Raymund Adoc  
**Action Category:**  
Program/College Support | 11/17/2015 - Will monitor student performance associated with oral examination to see if changes in technology maybe affecting overall performance. Possible teaching strategies include use of most current software training tools designed specifically for respiratory care such as Decision Simulation Software which allows for usage in the greatest amount of classes. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material. |  

| ECC: RC 289 - Adv Resp Thryp Asmtic Patient - **SLO #1 Explain Acute vs Chronic Asthma** - Students will be able to answer written questions, oral questions and perform procedures that demonstrates knowledge and ability to manage patients with acute and chronic asthma.  
Course SLO Assessment Cycle:  
2014-15 (Fall 2014)  
2017-18 (Fall 2017)  
Input Date:  
11/29/2013  
Course SLO Status:  
Active | **Assessment Method Description:** oral examination describing management of a patient with an acute asthma exacerbation whose ABG indicates the need for 02 adjustments.  
**Assessment Method:** Exam/Test/Quiz  
**Standard and Target for Success:** Achieve 100% score on the oral examination. 100% of all participants must meet the standard in two attempts. | 11/17/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual asthmatic patients in the E.D. at various clinical sites where asthmatic patients well-being is of the highest importance.  
The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.  
**Standard Met? :**  
**Semester and Year Assessment Conducted:**  
2014-15 (Fall 2014)  
**Faculty Assessment Leader:**  
Roy Mekaru  
**Faculty Contributing to Assessment:**  
Vicki Robertson, Doug Mizukami, Raymund Adoc  
**Action Category:**  
Program/College Support | 11/17/2015 - Will monitor student performance associated with oral examination to see if changes in technology maybe affecting overall performance. Possible teaching strategies include use of most current software training tools designed specifically for respiratory care such as Decision Simulation Software which allows for usage in the greatest amount of classes. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material. |
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**ECC: RC 296 - Physical Exam in Adv Resp Care**

- **SLO #1 Demonstrate or Explain Pulmonary Physical Exam**
- Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to conduct a complete pulmonary physical exam on patients with various pulmonary disorders.

**Course SLO Assessment Cycle:** 2014-15 (Fall 2014)

**Input Date:** 11/29/2013

**Course SLO Status:** Active

**Assessment Method Description:** oral examination describing patient assessment of a COPD patient on mechanical ventilator whose ABG gas indicates the need for 02 adjustments.

**Assessment Method:** Essay/Written Assignment

**Standard and Target for Success:** Achieve 100% score on the oral examination. 100% of all participants must meet the standard in two attempts.

**Results:**

- 11/17/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual ventilator patients at various clinical sites where the ventilator patients well-being is of the highest importance. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.

**Standard Met? :** Yes

**Semester and Year Assessment Conducted:** 2014-15 (Fall 2014)

**Faculty Assessment Leader:** Roy Mekaru

**Faculty Contributing to Assessment:** Vicki Robertson, Doug Mizukami, Raymund Adoc

**Action Category:** Program/College Support

**Action & Follow-Up:**

- 11/17/2015 - Will monitor student performance associated with oral examination to see if changes in technology maybe affecting overall performance. Possible teaching strategies include use of most current software training tools designed specifically for respiratory care such as Decision Simulation Software which allows for usage in the greatest amount of classes. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material.

**Action Category:** Program/College Support

**Action & Follow-Up:**

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ECC: RC 297 - Perinatal/Ped in Adv Resp Care - SLO #1 Demo Competent Management of Perinatal and Pediatric Patients - Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage perinatal and pediatric patients receiving all forms of respiratory care for various pulmonary disorders.

**Course SLO Assessment Cycle:**
2014-15 (Fall 2014)

**Input Date:**
11/29/2013

**Course SLO Status:**
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| **Assessment Method Description:**
oral examination describing ventilator management of a newborn on mechanical ventilator whose UA gas indicates the need for CO2 adjustments. |
11/17/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual neonatal ventilator patients at various clinical sites where the neonatal ventilator patients well-being is of the highest importance. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning material. |
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**Standard Met?**
Yes

**Semester and Year Assessment Conducted:**
2014-15 (Fall 2014)

**Faculty Assessment Leader:**
Roy Mekaru

**Faculty Contributing to Assessment:**
Vicki Robertson, Doug Mizukami, Raymund Adoc

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ECC: RC 298 - Advanced Emergency Management - SLO #1 Functioning as a Rapid Response Team - Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage widespread emergency disaster plan and function as part of the team performing respiratory procedures and therapy on patients with various pulmonary disorders.

**Course SLO Assessment Cycle:**
2014-15 (Fall 2014)

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| **Assessment Method Description:**
oral examination describing emergency management of a trauma victim with pulmonary disorders in the E.D. whose physical assessment indicates the need for therapeutic management adjustments. |
11/17/2014 - Students were able to achieve 100% on the oral examination with minimal difficulty. All were able to complete on first attempt. The high standard of 100% on the examination is vital since these same students will be training clinically with actual trauma patients at various clinical sites where the trauma patients well-being is of the highest importance. The students did report that during their preparation for the examination, newer technologies in ventilators were mentioned in their researches that were not available in the RC Lab to help them prepare. The faculty was able to administer the examination successfully but may have difficulty in maintaining the standard in the future. Software such as Decision Simulation can assist students in technical skill portion of this class. Also, updated mannequins and a second Human Patient Simulator focusing on Respiratory Emergencies would allow more time for each student to spend learning |
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