

Outcomes Mapping

TECHNOLOGY AND HEALTH DIVISION

Program:	Respiratory Therapy	# Courses: (if applicable)	16	Updated:	June 2015	Submitted by:	Mary Rose Wiesner
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Institutional Level Outcomes (ILOs): *As a result of an educational experience with any aspect of the college, students will develop the following knowledge, skills, abilities, and attitudes:*

1. Communication	2. Critical Thinking	3. Information and Technology Literacy	4: Personal, Social, Civic, & Environmental Responsibility			
Connect PLOs with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated following the completion of the program or educational experience.			PLO to ILO Alignment			
PLO Name	PLO Defined: Upon successful completion of this program, students will be able to:	1	2	3	4	
1. CRT and RRT Exam	Graduates will achieve the CRT and RRT credential	M	M	M	M	
2. Program completors	The student will demonstrate, in the laboratory and clinical setting, the correct procedures for basic Respiratory Therapy treatment modalities.	P	P	P	P	
3. Program completors - 2	The student will demonstrate, in the laboratory and clinical setting, the correct procedures for advanced Respiratory Therapy procedures to include manual and mechanical venti	P	P	P	P	
4.						
5.						
6.						
7.						
8.						
9.						
10.						

See the Outcomes Assessment website for definitions and examples of Mt. SAC's ILOs: <http://www.mtsac.edu/instruction/outcomes/ilos.html>

Key for Level of Learning

(Use for Mapping SLOs/MOs to PLOs to ILOs)

I = Knowledge/Skill Introduced

P = Knowledge/Skill Practiced/Applied

M = Knowledge/Skill Mastered

Outcomes Mapping

Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 50	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will be able to state how Poiseuille's Law determines airway resistance and the most significant factor that influences a patient's ability to breathe through an endotracheal tube.			P								P	P		P
SLO: Given a patient scenario, apply the appropriate personal protective equipment.		P	P								P	P		P
MO: Define key respiratory terms.	P	P									P			
MO: State the personal protective equipment required to control the spread of airborne infections.		P									P	P		P
MO: Summarize the basic elements of the Health Insurance Portability and Accountability Act (HIPAA).		P									P	P		P
MO: Discuss the major historical events that have shaped modern respiratory care practice.		P									P			P
MO: Demonstrate professional behavior.		P									P			P
MO: Differentiate between scholarly journal articles and magazine articles.		P									P	P	P	
MO: Predict gas behavior under changing conditions using gas law calculations.		P										P		
MO: Explain what constitutes an ethical dilemma and how they arise in health care.		P									P	P		P
MO: Evaluate various on-line sources of information pertaining to respiratory care.		P									P	P	P	

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Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 58	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will discuss the special features of the fetal circulation and the changes that occur in the circulation with birth.			P								P	P		P
SLO: The student will be able to describe the pathophysiology underlying infant respiratory distress syndrome.			P								P	P		P
MO: Construct a detailed fetal-maternal history and classify the maternal risk for pre-term delivery.	P		P								P	P		P
MO: Evaluate labor and delivery data and assessment at the time of delivery and construct a plan of resuscitation and stabilization.	P		P								P	P		P
MO: Inspect neonatal chest radiographs and describe the normal and pathophysiological features present.	P		P								P	P		P
MO: Evaluate visual and physical findings from a neonatal case study and deduce the appropriate gestational age of the neonate.	P		P								P	P		P
MO: Analyze and interpret findings for the chest x-ray, arterial blood gases, transcutaneous blood gases, electrolytes and hematology, physical examination, vital signs, pulse oximetry, urine output, sputum characteristics, and electrocardiogram and create a respiratory	P		P								P	P		P

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therapy care plan that reflects appropriate management of the neonate from the time of delivery, through intensive care management on mechanical ventilation, and discharge and home care.													
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Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 59	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Given a patient scenario, the student will evaluate patient data and make recommendations for therapy.	P	P	P								P	P		P
SLO: Given a patient scenario, the student will perform troubleshooting, quality control, and infection control of equipment.	P	P	P								P	P		P
SLO: Given a patient scenario, the student will recommend to initiate or modify therapy as indicated by patient data.	P	P	P								P	P		P
MO: Determine areas of strength and weakness through the use of practice examinations to develop a personalized study plan for the Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT) examinations.	P	P	P									P		P
MO: Evaluate patient data and make treatment recommendations.	M	P	P								P	P		
MO: Select, assemble, use, troubleshoot, and clean respiratory therapy equipment.	M	P	P								P	P		
MO: Initiate and modify therapeutic procedures.	M	P	P								P	P		
MO: State the credentialing process for the Respiratory Care profession.	M													M
MO: Develop professional resumes.	M													M

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Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 60	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Given arterial blood gas data, the student will be able to determine the patient's acid base status.	P	P	P								P	P		P
SLO: Given patient assessment data, create an assessment statement and treatment plan.	P	P	P								P	P		P
MO: Locate the topographic position of thoracic landmarks on a diagram of the chest.	P	P	P									P		
MO: Describe the causes and characteristics of common cardiopulmonary symptoms.	P	P	P								P	P		P
MO: Interpret arterial blood gas data.	P	P	P								P	P		
MO: Analyze patient data and determine the related pathophysiology.	P	P	P								P	P		P
MO: Create a patient care plans.	P	P	P								P	P		P
MO: Select appropriate therapy based on patient assessment data.	P	P	P								P	P		P

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Course: RESD 62	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will state the difference between the parasympathetic and sympathetic branches of the nervous system.		P	P								P	P	P	
SLO: Given a patient scenario, the student will determine appropriate drug therapy.	P	P	P								P	P		P
MO: Define key terms pertaining to the principles of drug action.	P	P									P			
MO: State the indications for each of the major aerosolized drug groups.	P	P	P								P	P		P
MO: Describe the therapeutic purpose of each major aerosolized drug groups.	P	P	P								P	P		P
MO: Calculate drug dosages.	P	P	P									P		
MO: Compare and contrast the parasympathetic and sympathetic branches of the nervous system.		P	P								P	P		
MO: Apply drug therapy techniques.	P	P	P									P		P

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Course: RESD 52	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: List and describe the five lung volumes and four lung capacities.	M	P	P								P	M	P	P
SLO: Correctly describe the mechanisms for oxygen and carbon dioxide transport to and from the heart and lungs and body cells.	P	P	P								P	P	P	P
MO: Identify the functions of the nose, oral cavity, pharynx and larynx	P	P	P								P	P		
MO: Describe how the cross-sectional area of the tracheobronchial tree changes from the trachea to the terminal bronchioles.	P	P	P								P	P		P
MO: .Describe the structure and function of the pulmonary vascular system.	P	P	P								P	P		P
MO: Describe the structure and function of the pulmonary vascular system.	P	P	P									P		
MO: Describe the structure and function of the pulmonary vascular system.		P	P								P	P		
MO: Describe how oxygen and carbon dioxide normally diffuse across the alveolar-capillary membrane.	P	P	P									P		P
M: .Describe the structure and function of the heart.	P	M	M								P	M	P	P

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Course: RESD 55	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO - The student will compare and contrast the features and benefits of volume controlled mechanical ventilation, (VC), and pressure controlled ventilation, (PC	M		M								M	M	P	
SLO –The students will list and describe the methods used to wean a patient from mechanical ventilation.	M		M								M	M	P	
MO: Formulate a patient care plan utilizing principles of mechanical ventilation.	P		P								P	P	P	
MO: Assess the effectiveness of ventilation and propose strategies to improve ventilation.	M		M								M	M	P	P
MO: Assess the effectiveness oxygenation and propose strategies to improve oxygenation.	M	M	M								M	M	P	P
MO: Interpret ventilator waveforms.	P	P	P								P	P	P	
MO: Compare and contrast the different methods of weaning from mechanical ventilation and choose the best method for a given patient.	M		M								P	P	P	
MO: Analyze nutrition as related to mechanically-ventilated patients.	P		P								P	P	P	P
MO: Identify the pharmacologic agents used during mechanical ventilation.	P	P	P								P	P	P	
MO: Analyze hemodynamic values and waveforms.	P	P	P								P	P	P	

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Course: RESD 51B	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO - The student will demonstrate, in the laboratory setting, the correct procedure for opening the patient's airway and providing Bag-Mask-Ventilation, (BVM).			M								M	M		P
SLO - Student will describe and correctly perform endotracheal suctioning.	P		P								P	M		P
MO - Correctly insert a nasopharyngeal and oropharyngeal airway into a mannequin.			M								P	P		
MO-Use proper aseptic donning of gloves and handling of the sterile contents of a suction kit.			P								P	P		
MO- Perform endotracheal suctioning on an intubated airway management trainer using proper technique.	P		P								P	P	P	
MO- Describe the construction and function of a bag-valve resuscitator unit.	M		P								P	P		
MO - Demonstrate effective manual ventilation techniques with a bag-valve mask resuscitator on a mannequin.	P		M								P	P	P	
MO- Select and properly fit appropriate mask and initiate noninvasive ventilation on a mannequin.	P		P								P	P	P	
MO - Select and properly fit appropriate mask and initiate noninvasive ventilation on a mannequin.	P		P								P	P	P	
MO - Identify and correctly set alarms system for	M		P								P	P	P	

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the Servo I and Puritan-Bennett 840 mechanical ventilators.														
MO - Determine the most appropriate mode of ventilation, settings, and alarm parameters.	P		P								P	P	P	
MO - Properly verify and document the function of a mechanical ventilator.	M		P								P	P	P	
MO - State the indications, hazards, and goals of oxygen administration.	M	M	M								M	M	P	P
MO - Select the appropriate oxygen delivery device.	M	M	M								M	M	P	P

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Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 57B	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO - Student will list the appropriate techniques to administer aerosol drug therapy to mechanically ventilated patients	P		P									P		
SLO - Students will be able to state the indications, hazards, and goals of mechanical ventilation	M		M								P	P		
MO: Evaluate patient data, diagram a solution to patient problems and select appropriate respiratory drugs, doses, and frequencies.	P	P	P								P	P	P	
MO: Assess and select appropriate processes, procedure, and sequencing for bronchoscopy.	P		P									P	P	
MO: Analyze intensive care case studies including patients receiving mechanical ventilation and decide appropriate sedative and analgesic medications with dosing schedules.	P		P								P	P	P	
MO: Compare and contrast the three primary modes of mechanical ventilation.	M		M								P	P	P	
MO: Perform arterial punctures on an arterial puncture arm.	P	P	P								P	P	P	

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Course: MEDI 90	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO - Students will be able to distinguish correct from incorrect spelling of medical terms	P	P										P		
SLO - Students will be able to define medical terms to identify pathological conditions in patients	P	P	P									P		
MO: Differentiate between terms which sound similar and have similar spellings to translate them correctly.	P	P									P	P		
MO: Construct sentences using medical terms to diagnose medical conditions.	P	P	P									P		
MO: Determine word meaning by interpretation of prefixes, suffixes and/or word roots.	P	P										P		
MO: Interpret medical terms for a broad range of body systems and medical conditions.	P	P	P									P		

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Course: RESD 56A	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Student will perform a comprehensive bedside patient assessment on an Adult patient on the general care ward of a hospital	P	P									P	P	P	
MO: Demonstrate proper storage, transport, and administration of medical gases.	P	P											P	
MO: Apply basic forms of medical gas therapy to patients according to the policies of the clinical site you are assigned.	P	P									P		P	
MO: Perform detailed respiratory assessment on patients in the clinical site you are assigned.	P	P									P	P	P	
MO: Perform aerosolized bronchodilator treatments, bronchial hygiene treatments, lung expansion treatments, and non-invasive monitoring on patients in the clinical site you are assigned.	P	P										P	P	
MO: Recognize and respond to patient emergencies including CPR and airway management in the clinical site you are assigned.	P	P									P	P	P	

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Course: RESD 56B	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will perform a patient-ventilator system check in the hospital setting.	P		P								P	P	P	
SLO: Students will be able to calculate static and dynamic compliance.	P		P								P	P	P	
MO: Demonstrate proper storage, transport, and administration of medical gases to the ICU patient.	P	P										P	P	
MO: Perform mechanical ventilator care to include ventilator set up and initiation.	P		P									P	P	
MO: Perform the elements of patient assessment on critically ill patients.	P		P								P	P	P	
MO: Perform advanced respiratory care treatments and procedures and perform basic respiratory care treatments to include mechanical ventilation, humidity therapy, aerosolized bronchodilator, bronchial hygiene, lung expansion, non-invasive monitoring.	P	P	P									P	P	
MO: Recognize and respond to patient emergencies to include CPR and airway management.	P		P								P	P	P	

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Course: RESD 56C	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will verbalize the difference between Pressure Control Ventilation versus Volume Control Ventilation	P		P								P	P	P	
MO: Demonstrate proper storage, transport, and administration of medical gases to the intensive care unit patient.	P	P										P	P	
MO: Perform mechanical ventilator care to include ventilator set up and initiation.	P		P									P	P	
MO: Perform the elements of patient assessment on critically ill patients.	P		P								P	P	P	
MO: Perform advanced respiratory care treatments and procedures to include mechanical ventilation, humidity therapy, aerosolized bronchodilator, bronchial hygiene, lung expansion, and non-invasive monitoring.	P	P	P									P	P	
MO: Recognize and respond to patient emergencies to include cardiopulmonary resuscitation and airway management.	P		P								P	P	P	

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Course: RESD 56D	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: The student will actively participate in the weaning process of an adult patient being weaned from mechanical ventilation in the hospital clinic setting	P		P								P	P	P	
MO: Demonstrate proper storage, transport, and administration of medical gases to the Intensive Care Unit (ICU) and Neonatal Intensive Care Unit (NICU) patient.	P	P										P	P	
MO: Perform mechanical ventilator care to include ventilator initiation, circuit changes, and patient-system ventilator checks on the adult and NICU patient.	P		P									P	P	
MO: Perform detailed respiratory assessment on the adult, pediatric, and neonatal patients including computation of patient lung mechanics and analysis of patient clinical data leading to a treatment plan.	P	P	P								P	P	P	
MO: Perform advanced respiratory care treatments and procedures and perform basic respiratory care treatments to include mechanical ventilation, humidity therapy, aerosolized bronchodilator, bronchial hygiene, lung expansion, non-invasive monitoring.	P	P	P									P	P	
MO: Recognize and respond to patient emergencies to include CPR and airway management according to institutional policy.	P		P								P	P	P	

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Course: RESD 51A	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Student will state the indications, hazards, and goals of medical gas therapy according to the AARC Clinical Practice Guidelines for Administration of Oxygen in the Acute Care Hospital.	P	I									P	I	I	
SLO: The student will demonstrate, in the laboratory setting, the correct procedure for aerosolized medication delivery by metered dose inhaler, (MDI) and small volume nebulizer, (SVN).	P	I									P	I	I	
MO: List the methods for storage, transport, and administration of medical gases.	P	I									P	I	I	
MO: State the indications, hazards, and goals of medical gas therapy.	P	I									P	I	I	
MO: Describe how humidity is generated and depleted and effects on patients.	P	P									P	I	I	
MO: Compare and contrast effectiveness of various humidifiers to prevent humidity deficiency.	I	I									I	I	I	
MO: Explain principles of aerosol production and deposition.	I	I									P	I	I	
MO: Describe the administration of aerosols via nebulizers.	I	I									P	I	I	
MO: Calculate oxygen cylinder duration and total.	P	P									P	P	P	

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Course: RESD 53	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Students will be able to examine and illustrate general management of commonly encountered cardiopulmonary diseases.	P										P	P		
SLO: Students will be able to evaluate and classify the clinical manifestations associated with commonly encountered cardiopulmonary diseases	P										P	P		
MO: Distinguish and illustrate the anatomic alterations of the lungs of commonly encountered cardiopulmonary diseases.	P										P	P		
MO: Summarize the etiologies of commonly encountered cardiopulmonary diseases.	P										P	P		
MO: Evaluate and classify the clinical manifestations associated with commonly encountered cardiopulmonary diseases.	P										P	P		
MO: State the general management of commonly encountered cardiopulmonary diseases.	P	P	P								P	P		
MO: Given a case study, create a respiratory assessment and plan for patients with commonly encountered cardiopulmonary diseases.	P	P	P								P	P		

Key for Level of Learning

(Use for Mapping SLOs/MOs to PLOs to ILOs)

I = Knowledge/Skill Introduced

P = Knowledge/Skill Practiced/Applied

M = Knowledge/Skill Mastered

Outcomes Mapping

Student Learning Objectives (SLOs), Measureable Objectives (MOs), Administrative Unit Objectives (AUOs)														
Course: RESD 61	Connect Outcomes with an I, P, or M (see Key in Footer) identifying the level to which knowledge or a skill can be demonstrated in that portion of the course or service.													
SLOs, MOs, AUOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	ILO 1	ILO 2	ILO 3	ILO 4
SLO: Students will be able to examine quality improvement processes for determination of standards of performance	P										P	P	P	
SLO: Students will be able to utilize evidence-based medicine and respiratory therapy	P	P	P								P	P	P	P
MO: Evaluate and summarize research articles on evidence-based guidelines for respiratory therapy practices and procedures.	P	P	P								P	P	P	P
MO: Create a prescription for cardiopulmonary rehabilitation activities in an actual patient.	I		I								P	P	I	
MO: Evaluate collected sleep study data and classify the type of sleep abnormality present.	I		I								P	P	I	
MO: Review, collate, and interpret data collected from Respiratory Therapy student surveys using quality assurance processes.	P										P	P	I	
MO: Apply principles of quality improvement	P										P	P	I	

Key for Level of Learning

(Use for Mapping SLOs/MOs to PLOs to ILOs)

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