



Western Technical College

## 10515182 Respiratory Clinical 4

### Course Outcome Summary

#### Course Information

**Description** Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 26 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional.

<b>Career Cluster</b>	Health Science
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	3
<b>Total Hours</b>	162

#### Textbooks

515-175 *Respiratory Therapy Clinical Practice 1 Manual*. Western. Publisher: Western. Required.

#### Learner Supplies

Red uniform tunic and black pants (red warm-up jacket optional). **Vendor:** To be discussed in class. Required.

#### Experiential Learning

1. Work Based Learning

## Program Outcomes

1. Apply respiratory therapy concepts to patient care situations.
2. Demonstrate technical proficiency required to fulfill the role of a Respiratory Therapist.
3. Practice respiratory therapy according to established professional and ethical standards.

## Course Competencies

### 1. Demonstrate competence in 26 clinical competencies

#### Assessment Strategies

- 1.1. in a clinical setting.

#### Criteria

*Your performance will be successful when:*

- 1.1. you obtain check-offs for at least 26 clinical competencies on this list; your instructor may or may not assign specific competencies

### 2. Apply standard precautions R

#### Assessment Strategies

- 2.1. in a clinical setting
- 2.2. through an oral or written response to scenarios and/or questions

#### Criteria

*Your performance will be successful when:*

- 2.1. you perform the relevant steps on the procedure checklist
- 2.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 2.3. you perform the procedure according to institutional policies

### 3. Assess vital signs R

#### Assessment Strategies

- 3.1. in a clinical setting
- 3.2. through an oral or written response to scenarios and/or questions

#### Criteria

*Your performance will be successful when:*

- 3.1. you perform the relevant steps on the procedure checklist
- 3.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 3.3. you perform the procedure according to institutional policies

### 4. Provide education to the patient and family R

#### Assessment Strategies

- 4.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 4.2. through an oral or written response to scenarios and/or questions

#### Criteria

- 4.1. you perform the relevant steps on the procedure checklist
- 4.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 4.3. you perform the procedure according to institutional policies

### 5. Perform pulse oximetry R

#### Assessment Strategies

- 5.1. in a clinical setting
- 5.2. through an oral or written response to scenarios and/or questions

#### Criteria

*Your performance will be successful when:*

- 5.1. you perform the relevant steps on the procedure checklist
- 5.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 5.3. you perform the procedure according to institutional policies

## **6. Perform chart review R**

### **Assessment Strategies**

- 6.1. in a clinical setting
- 6.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 6.1. you perform the relevant steps on the procedure checklist
- 6.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 6.3. you perform the procedure according to institutional policies

## **7. Demonstrate cylinder safety R**

### **Assessment Strategies**

- 7.1. in a clinical setting
- 7.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 7.1. you perform the relevant steps on the procedure checklist
- 7.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 7.3. you perform the procedure according to institutional policies

## **8. Administer oxygen therapy R**

### **Assessment Strategies**

- 8.1. in a clinical setting
- 8.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 8.1. you perform the relevant steps on the procedure checklist
- 8.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 8.3. you perform the procedure according to institutional policies

## **9. Perform open system suctioning R**

### **Assessment Strategies**

- 9.1. in a clinical setting
- 9.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 9.1. you perform the relevant steps on the procedure checklist
- 9.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 9.3. you perform the procedure according to institutional policies

## **10. Perform closed system suctioning R**

### **Assessment Strategies**

- 10.1. in a clinical setting
- 10.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 10.1. you perform the relevant steps on the procedure checklist
- 10.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

10.3. you perform the procedure according to institutional policies

## **11. Perform extubation R**

### **Assessment Strategies**

11.1. in a clinical setting

11.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

11.1. you perform the relevant steps on the procedure checklist

11.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

11.3. you perform the procedure according to institutional policies

## **12. Perform arterial puncture R**

### **Assessment Strategies**

12.1. in a clinical setting

12.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

12.1. you perform the relevant steps on the procedure checklist

12.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

12.3. you perform the procedure according to institutional policies

## **13. Administer bronchial hygiene adjuncts (i.e. flutter, pep, vest) R**

### **Assessment Strategies**

13.1. by performing and/or assisting with procedure in a clinical setting or simulation

13.2. through an oral or written response to scenarios and/or questions

### **Criteria**

13.1. you perform the relevant steps on the procedure checklist

13.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

13.3. you perform the procedure according to institutional policies

## **14. Manage artificial airways R**

### **Assessment Strategies**

14.1. by performing and/or assisting with procedure in a clinical setting or simulation

14.2. through an oral or written response to scenarios and/or questions

### **Criteria**

14.1. you perform the relevant steps on the procedure checklist

14.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

14.3. you perform the procedure according to institutional policies

## **15. Manage ventilator modes based on patient need R**

### **Assessment Strategies**

15.1. by performing and/or assisting with procedure in a clinical setting or simulation

15.2. through an oral or written response to scenarios and/or questions

### **Criteria**

15.1. you perform the relevant steps on the procedure checklist

15.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine

15.3. you perform the procedure according to institutional policies

## **16. Manage non-invasive positive pressure ventilation R**

### **Assessment Strategies**

16.1. by performing and/or assisting with procedure in a clinical setting or simulation

16.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 16.1. you perform the relevant steps on the procedure checklist
- 16.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 16.3. you perform the procedure according to institutional policies

**17. Administer aerosolized medication R**

**Assessment Strategies**

- 17.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 17.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 17.1. you perform the relevant steps on the procedure checklist
- 17.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 17.3. you perform the procedure according to institutional policies

**18. Evaluate patient response to mechanical ventilation R**

**Assessment Strategies**

- 18.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 18.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 18.1. you perform the relevant steps on the procedure checklist
- 18.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 18.3. you perform the procedure according to institutional policies

**19. Initiate mechanical ventilation R**

**Assessment Strategies**

- 19.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 19.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 19.1. you perform the relevant steps on the procedure checklist
- 19.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 19.3. you perform the procedure according to institutional policies

**20. Evaluate patient readiness for liberation from mechanical ventilation R**

**Assessment Strategies**

- 20.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 20.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 20.1. you perform the relevant steps on the procedure checklist
- 20.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 20.3. you perform the procedure according to institutional policies

**21. Administer hyperinflation therapy adjuncts i.e. incentive spirometry, intermittent positive pressure breathing, PAP R**

**Assessment Strategies**

- 21.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 21.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 21.1. you perform the relevant steps on the procedure checklist
- 21.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 21.3. you perform the procedure according to institutional policies

**22. Demonstrate strategies to prevent ventilator associated events R**

**Assessment Strategies**

- 22.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 22.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 22.1. you perform the relevant steps on the procedure checklist
- 22.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 22.3. you perform the procedure according to institutional policies

## **23. Implement weaning protocols R**

### **Assessment Strategies**

- 23.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 23.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 23.1. you perform the relevant steps on the procedure checklist
- 23.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 23.3. you perform the procedure according to institutional policies

## **24. Perform a pulmonary exam R**

### **Assessment Strategies**

- 24.1. in a clinical setting
- 24.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 24.1. you perform the relevant steps on the procedure checklist
- 24.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 24.3. you perform the procedure according to institutional policies

## **25. Participate as a member of the interprofessional care management team R**

### **Assessment Strategies**

- 25.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 25.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 25.1. you meet with the care team
- 25.2. you use effective communicate strategies
- 25.3. you provide recommendations for changes to the therapeutic care plan
- 25.4. you accept feedback in a professional manner

## **26. Perform manual ventilation according to patient needs S**

### **Assessment Strategies**

- 26.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 26.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 26.1. you perform the relevant steps on the procedure checklist
- 26.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 26.3. you perform the procedure according to institutional policies

## **27. Evaluate hemodynamic data S**

### **Assessment Strategies**

- 27.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 27.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 27.1. you perform the relevant steps on the procedure checklist
- 27.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 27.3. you perform the procedure according to institutional policies

## **28. Evaluate need for home oxygen therapy for example oxygen titration with exercise S**

### **Assessment Strategies**

- 28.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 28.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 28.1. you perform the relevant steps on the procedure checklist
- 28.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 28.3. you perform the procedure according to institutional policies

**29. Perform tracheostomy care S**

**Assessment Strategies**

- 29.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 29.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 29.1. you perform the relevant steps on the procedure checklist
- 29.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 29.3. you perform the procedure according to institutional policies

**30. Interpret capnography results S**

**Assessment Strategies**

- 30.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 30.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 30.1. you perform the relevant steps on the procedure checklist
- 30.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 30.3. you perform the procedure according to institutional policies

**31. Manage mechanical ventilation of the neonate/pediatric patient S**

**Assessment Strategies**

- 31.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 31.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 31.1. you perform the relevant steps on the procedure checklist
- 31.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 31.3. you perform the procedure according to institutional policies

**32. Administer chest physical therapy S**

**Assessment Strategies**

- 32.1. in a clinical setting or simulation
- 32.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 32.1. you perform the relevant steps on the procedure checklist
- 32.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 32.3. you perform the procedure according to institutional policies

**33. Set up large volume medication nebulizer S**

**Assessment Strategies**

- 33.1. in a clinical setting or simulation
- 33.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 33.1. you perform the relevant steps on the procedure checklist
- 33.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 33.3. you perform the procedure according to institutional policies

**34. Change ventilator circuit S**

**Assessment Strategies**

- 34.1. in a clinical setting or simulation
- 34.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 34.1. you perform the relevant steps on the procedure checklist
- 34.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 34.3. you perform the procedure according to institutional policies

**35. Assist with intubation S**

**Assessment Strategies**

- 35.1. in a clinical setting or simulation
- 35.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 35.1. you perform the relevant steps on the procedure checklist
- 35.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 35.3. you perform the procedure according to institutional policies

**36. Perform nasotracheal suctioning S**

**Assessment Strategies**

- 36.1. in a clinical setting or simulation
- 36.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 36.1. you perform the relevant steps on the procedure checklist
- 36.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 36.3. you perform the procedure according to institutional policies

**37. Perform screening spirometry S**

**Assessment Strategies**

- 37.1. in a clinical setting or simulation
- 37.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 37.1. you perform the relevant steps on the procedure checklist
- 37.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 37.3. you perform the procedure according to institutional policies

**38. Perform 12 lead EKGs S**

**Assessment Strategies**

- 38.1. in a clinical setting or simulation
- 38.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 38.1. you perform the relevant steps on the procedure checklist
- 38.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 38.3. you perform the procedure according to institutional policies

**39. Perform a trach change O**

**Assessment Strategies**

- 39.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 39.2. through an oral or written response to scenarios and/or questions



## Criteria

*Your performance will be successful when:*

- 39.1. you perform the relevant steps on the procedure checklist
- 39.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 39.3. you perform the procedure according to institutional policies

## 40. Perform sputum induction O

### Assessment Strategies

- 40.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 40.2. through an oral or written response to scenarios and/or questions

## Criteria

*Your performance will be successful when:*

- 40.1. you perform the relevant steps on the procedure checklist
- 40.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 40.3. you perform the procedure according to institutional policies

## 41. Assist with bronchoscopy O

### Assessment Strategies

- 41.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 41.2. through an oral or written response to scenarios and/or questions

## Criteria

*Your performance will be successful when:*

- 41.1. you perform the relevant steps on the procedure checklist
- 41.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 41.3. you perform the procedure according to institutional policies

## 42. Assist with thoracentesis O

### Assessment Strategies

- 42.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 42.2. through an oral or written response to scenarios and/or questions

## Criteria

*Your performance will be successful when:*

- 42.1. you perform the relevant steps on the procedure checklist
- 42.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 42.3. you perform the procedure according to institutional policies

## 43. Manage the use of heliox O

### Assessment Strategies

- 43.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 43.2. through an oral or written response to scenarios and/or questions

## Criteria

*Your performance will be successful when:*

- 43.1. you perform the relevant steps on the procedure checklist
- 43.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 43.3. you perform the procedure according to institutional policies

## 44. Manage the use of nitric oxide O

### Assessment Strategies

- 44.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 44.2. through an oral or written response to scenarios and/or questions

## Criteria

*Your performance will be successful when:*

- 44.1. you perform the relevant steps on the procedure checklist
- 44.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 44.3. you perform the procedure according to institutional policies

**45. Perform transcutaneous monitoring O**

**Assessment Strategies**

- 45.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 45.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 45.1. you perform the relevant steps on the procedure checklist
- 45.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 45.3. you perform the procedure according to institutional policies

**46. Assist with sleep lab procedures O**

**Assessment Strategies**

- 46.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 46.2. through an oral or written response to scenarios and/or questions

**Criteria**

*Your performance will be successful when:*

- 46.1. you perform the relevant steps on the procedure checklist
- 46.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 46.3. you perform the procedure according to institutional policies

**47. Perform a complete pulmonary function test O**

**Assessment Strategies**

- 47.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 47.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 47.1. you perform the relevant steps on the procedure checklist
- 47.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 47.3. you perform the procedure according to institutional policies

**48. Perform an arterial line draw O**

**Assessment Strategies**

- 48.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 48.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 48.1. you perform the relevant steps on the procedure checklist
- 48.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 48.3. you perform the procedure according to institutional policies

**49. Monitor pleural drainage systems O**

**Assessment Strategies**

- 49.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 49.2. through an oral or written response to scenarios and/or questions

**Criteria**

- 49.1. you perform the relevant steps on the procedure checklist
- 49.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 49.3. you perform the procedure according to institutional policies

**50. Create a respiratory care plan according to evidence based practices O**

### **Assessment Strategies**

- 50.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 50.2. through an oral or written response to scenarios and/or questions

### **Criteria**

- 50.1. care plan meets the requirements on the checklist
- 50.2. care plan is created according to the clinical practice guidelines and/or evidence based medicine
- 50.3. care plan is created according to institutional policies

## **51. Perform an Apnea test (brain death determination) O**

### **Assessment Strategies**

- 51.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 51.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 51.1. you perform the relevant steps on the procedure checklist
- 51.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 51.3. you perform the procedure according to institutional policies

## **52. Perform cardiopulmonary stress testing O**

### **Assessment Strategies**

- 52.1. by performing and/or assisting with procedure in a clinical setting or simulation
- 52.2. through an oral or written response to scenarios and/or questions

### **Criteria**

*Your performance will be successful when:*

- 52.1. you perform the relevant steps on the procedure checklist
- 52.2. you perform the procedure according to the clinical practice guidelines and/or evidence based medicine
- 52.3. you perform the procedure according to institutional policies