Introduction to Advanced Practice EMSP 1356 (Lab)

Credit

- 3 Credit Hours; 2 Lab Hours

Prerequisite

- EMT-Basic certification

Co-requisite

- EMSP 1338
- EMSP 1355
- EMSP 2206
- EMSP 2137

Course Description

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation.

Required Textbook and Materials

- EMS Program Student Handbook
- Nancy Caroline's Emergency Care in the Streets
    a. ISBN: 978-0-13-211233-8
- FISDAP

Course Objectives[1]

Upon completion of this course, the student will be able to:

- Demonstrate how to evaluate and document a patient's orientation and status.
- Demonstrate how to assess a patient's airway and breathing, and correctly obtain information on respiratory rate, rhythm, quality/character, and depth.
- Demonstrate how to assess a patient's circulation by evaluating pulses and assessing the skin.
- Demonstrate how to perform a rapid full-body scan.
- Demonstrate how to perform percussion as an assessment technique.
- Demonstrate how to compare the patient's serial vital signs with baseline measurements to identify trend in the patient's status.
- Demonstrate how to auscultate heart sounds.
- Demonstrate how to use pulse oximetry.
- Demonstrate how to position the unresponsive patient.
- Demonstrate how to perform the head tilt-chin lift maneuver.
- Demonstrate how to perform the jaw-thrust maneuver.
- Demonstrate how to perform the tongue-jaw lift maneuver.
- Demonstrate how to operate a suction unit.

[1] Curriculum based on the National EMS Education Standards set by the United States Department of Transportation (DOT).

- Demonstrate how to suction a patient's airway.
- Demonstrate how to insert an oropharyngeal airway.
- Demonstrate how to insert a nasopharyngeal airway.
- Demonstrate how to use Magill forceps to remove an object from a patient's airway.
- Demonstrate how to assist a patient with ventilations using the bag-mask device.
- Demonstrate how to use an automatic transport ventilator to assist in delivering artificial ventilation to the patient.
- Demonstrate how to use CPAP.
- Demonstrate how to insert an orogastric tube.
- Demonstrate the entire procedure for orotracheal intubation using direct laryngoscopy.
- Demonstrate the entire procedure for orotracheal intubation using video laryngoscopy.
- Demonstrate how to perform blind nasotracheal intubation.
- Demonstrate how to perform digital intubation.
- Demonstrate how to perform retro-grade intubation.
- Demonstrate how to perform face-to-face intubation.
- Demonstrate how to perform rapid sequence intubation.
- Demonstrate insertion of the King LT airway.
- Demonstrate insertion of the laryngeal mask airway.
- Demonstrate insertion of the Combitube.
- Demonstrate how to perform open cricothyrotomy.
- Demonstrate how to perform needle cricothyrotomy and translaryngeal catheter ventilation.

Course Outline

A. Patient Assessment
   1. Scene Size Up
   2. Primary Assessment
   3. History Taking
   4. Secondary Assessment
   5. Reassessment

B. Critical Thinking and Clinical Decision Making
   1. Cornerstones of Effective Paramedic Practices
   2. The Range of Patient Conditions
   3. Critical Thinking and Clinical Decision Making
   4. From Theory to Practical Application
   5. Taking to the Streets

C. Airway Management
   1. Review of Airway Anatomy
   2. Ventilation, Oxygenation, and Respiration
   3. Pathophysiology of Respiration
   4. Patient Assessment: Airway Evaluation
   5. Quantifying Ventilation and Oxygenation

6. Airway Management
7. Suctioning
8. Airway Adjuncts
9. Airway Obstructions
10. Supplemental Oxygen Therapy
11. Ventilatory Support
12. Continuous Positive Airway Pressure
13. Gastric Distension
14. Special Patient Considerations
15. Advanced Airway Management
16. Pharmacologic Adjunts to Airway Management and Ventilation
17. Alternative Advanced Airway Devices
18. Surgical and Nonsurgical Cricothyrotomy

Grade Scale

90-100	A
84-89	B
75-89	C
70-74	D
0-69	F

Course Evaluation

Final grades will be calculated according to the following criteria:

1. Skills Performance Sheet 80%
2. Affective Evaluation 20%

Course Policies

1. Attendance Policy. Three absences are allowed. If a student is tardy to class or departs early three (2) times, it will be equal to one (1) absence. Each absence beyond three absences will result in a 5 point deduction from your final grade.
2. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
3. Additional class policies as defined by EMS Program Student Handbook.
4. Lab Skill Sheets
    a. Each specific lab skill sheet will be assigned a minimal points required to pass the specific skill.
    b. Each specific lab skill sheet will be assigned "Critical Criteria" which must be met in order to pass the skill.
5. All lab skills are required to be passed the number of times assigned to each specific lab skill.

- Individual Student Competency Evaluation in the Laboratory

  - Lab skills are assigned a minimal number of times that the lab skill must be performed successfully while being evaluated by peers (P2P), and while being evaluated by lab instructors.
- Individual Student Competency Evaluation in a laboratory Scenario.
  - Lab skills are assigned a minimal number of times that the skill will be performed successfully in a scenario designed for that skill.

Lab Skills Required

Skill	P2P	Instructor	Scenario
Comprehensive Normal Adult Physical Assessment Techniques	**2**	**2**	**0**
Obtain a Patient History	**2**	**2**	**0**
CPAP and PEEP	**2**	**1**	**2**
Direct Orotracheal Intubation Adult	**2**	**10**	**2**
Nasotracheal Intubation Adult	**2**	**2**	**0**
Needle Cricothyrotomy	**2**	**2**	**4**
Supraglottic Airway Device	**2**	**2**	**6**

Technical Requirements **(for courses using Blackboard)**

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at: https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations

Coordinator at (409)839-2018. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu)

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document