

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 2260

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 Objectives¹

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 assess a patient's blood glucose level using a glucometer.
- 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.

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

EMSP 1356 (lab)
Course Syllabi

- Demonstrate how to operate a suction unit.
- 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

EMSP 1356 (lab)
Course Syllabi

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 Adjuncts 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. No food, drinks, or use of tobacco products in class.
2. Computers, telephones, headphones, and any other electronic devices must be turned off while in class or used only with permission of the instructor.
3. Do not bring children to class.
4. No late assignments will be accepted.
5. 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.
6. 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.
7. Additional class policies as defined by EMS Program Student Handbook.
8. Lab Skill Sheets
 - a. Each specific lab skill sheet will be assigned a minimal points required to pass the specific skill.

EMSP 1356 (lab)
Course Syllabi

- b. Each specific lab skill sheet will be assigned “Critical Criteria” which must be met in order to pass the skill.
 - c. Each specific lab skill sheet must have a letter score of “C” or better and all critical criteria must be met in order for that lab skill to be accepted.
9. All lab skills are required to be passed the number of times assigned to each specific lab skill.
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 - All lab skills are required to be passed the number of times assigned to each specific lab skill.

Lab Skills Required

Skill	Minimum Attempts Required	Instructor Check off Required
Comprehensive Normal Adult Physical Assessment Techniques	3	2
Obtain a Patient History	3	2
CPAP and PEEP	3	2
Direct Orotracheal Intubation Adult	3	2
Direct Orotracheal Intubation Peds	3	2
Glucometer	3	2
Nasotracheal Intubation Adult	3	2
Needle Cricothyrotomy	3	2
Supraglottic Airway Device	3	2

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 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building. You may also visit the online resource at <http://www.lit.edu/depts/stuserv/special/defaults.aspx>

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