

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: EMS 157

Credits: 3

Course Title: ALS — Trauma Care

Course Description: Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Utilizes techniques which will allow the student to utilize the assessment findings to formulate a field impression and implement the treatment plan for the trauma patient. Prerequisites: EMT-B certification and EMS 151. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose: Continues DOT's National Intermediate/Paramedic Curriculum. Includes ALS pharmacology, drug, and fluid administration with emphasis on trauma patient assessment and management.

Course Prerequisites and Co-requisites:

Prerequisites: EMT-B certification and EMS 151

Course Objectives:

Upon completing the course, the student will be able to

- a. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the trauma patient;
- b. Integrate the principles of kinematics to enhance the patient assessment and predict the likelihood of injuries based on the patient's mechanism of injury;
- c. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with shock or hemorrhage;
- d. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with soft tissue trauma;
- e. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the management plan for the patient with a burn injury;
- f. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the trauma patient with a suspected head injury;
- g. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with a suspected spinal injury;
- h. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for a patient with a thoracic injury;
- i. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with suspected abdominal trauma; and
- j. Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with a musculoskeletal injury.

Major Topics to Be Included:

- a. Introduction to trauma
- b. Trauma assessment
- c. Airway trauma with ventilation
- d. Thoracic trauma
- e. Abdominal trauma
- f. Trauma in pregnancy
- g. Soft tissue and musculoskeletal trauma
- h. Burns
- i. Head injury
- j. Spinal injury
- k. Pediatric trauma emergencies

Effective Date of Course Content Summary: April 6, 2009