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