South Central College

HEMS 1200  Emergency Medical Technician Initial

Course Outcome Summary

Course Information

Description
This course will provide the participant the necessary didactic and cognitive skills to enter the Basic Life Support Ambulance occupation arena as an EMT. Upon successful completion of this course the participant will be able to take the National Registry of Emergency Medical Technician written and practical examination, administered by the Minnesota EMS Regulatory Board. The course follows the guidelines established by the United States Department of Transportation and meets the requirements set forth by the Minnesota EMS Regulatory Board. This course is a requirement to progress into the Intensive Care Paramedic Program of study.

Total Credits 7
Total Hours 160

Pre/Corequisites
Student must be 18 years of age to be eligible to participate in National Registry Testing.

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Recognize the nature and seriousness of the patient's condition or extent of injury to assess requirements for emergency medical care.

Learning Objectives
Demonstrate the actions an EMT-Basic should take if there is reason to believe there is a hazard at the scene
Demonstrate the role of the EMT-basic in the multiple-casualty situation
Observe various scenarios and identify potential hazards
Demonstrate ability to form a general impression of the patient
Demonstrate ability to prioritize patients

2. Administer appropriate emergency medical care based on assessment findings of the patient's condition

Learning Objectives
Demonstrate emergency care of patients with medical complaints
Demonstrate emergency care of patients with traumatic injuries

3. **Lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury**
   
   **Learning Objectives**
   Working with a partner, prepare various devices for use, transfer patient to device, properly position patient on device, move device to ambulance, load patient into ambulance
   Demonstrate proper lifting techniques

4. **Perform safely and effectively the expectations of the job description**
   
   **Learning Objectives**
   Differentiate the roles and responsibilities and scope of practice of the EMT-Basic
   Given a scenario with potential infectious exposure, the EMT-Basic will use appropriate personal protective equipment and will demonstrate proper removal and disposal of protective garments

5. **Apply fundamental knowledge of the EMS system and safety/well-being of the EMT to the provision of emergency care.**
   
   **Learning Objectives**
   Describe the roles and responsibilities related to personal safety
   Discuss the roles and responsibilities of the EMT-Basic towards the safety of the crew, patient and bystanders

6. **Apply fundamental knowledge of medical/legal and ethical issues to the provision of emergency care**
   
   **Learning Objectives**
   Explain the legal issues associated with treatment, transport and refusal of care
   Explain legal issues associated with DNR orders
   Explain legal issues associated with advance directives
   Given a scenario the EMT-Basic will complete all reporting documentation

7. **Apply fundamental knowledge of the anatomy and function of all human systems to the practice of EMS**
   
   **Learning Objectives**
   Describe the anatomy and function of major body systems
   Identify topographic terms
   Use foundational anatomical and medical terms and abbreviations in written and oral communication with health care professionals

8. **Apply fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management**
   
   **Learning Objectives**
   Establish relationship between airway management and patient with breathing difficulty
   Recognize need for medical direction to assist in emergency medical care of patient with breathing difficulty
   Differentiate between upper airway obstruction and lower airway disease in infant and child patient
   Demonstrate assessment and prioritization of respiratory distress

9. **Apply fundamental knowledge of life span development to patient assessment and management**
   
   **Learning Objectives**
   Identify developmental considerations for the different age groups
   Describe the differences in anatomy and physiology for the infant, child and adult patient
   Differentiate the response of the ill or injured infant or age-specific child from that of an adult

10. **Apply fundamental knowledge of the medications that the EMT may assist/administer to a patient during an emergency**
    
    **Learning Objectives**
    Identify the medications the EMT-B may assist in administering to the patient
    Demonstrate steps for assisting patient with self-administration of medication

11. **Apply knowledge of anatomy/physiology to patient assessment and management in order to**
assure a patent airway, adequate mechanical ventilation and respiration for patients of all ages

Learning Objectives
- List signs of adequate air exchange
- Describe signs of inadequate ventilation
- Demonstrate steps in opening airway in adult and pediatric patient
- Demonstrate artificial ventilation of infant, child and adult patient
- Demonstrate oxygen administration for infant, child and adult patient
- Demonstrate emergency medical care for breathing difficulty for infant, child and adult patient

12. **Apply scene information as patient assessment findings (scene size-up, primary and secondary assessment, patient history, reassessment) to guide emergency management**

Learning Objectives
- Demonstrate scene size-up
- Demonstrate primary assessment
- Demonstrate secondary assessment
- Demonstrate obtaining patient history
- Formulate treatment plan

13. **Apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely ill patient**

Learning Objectives
- Describe normal and abnormal findings when assessing a patient
- Demonstrate prioritizing patient for care and transport
- Differentiate between critical and non-critical patients
- Demonstrate rapid assessment
- Demonstrate emergency care for critical medical patient

14. **Apply a fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest, cardiac failure or arrest and post-resuscitation management**

Learning Objectives
- Demonstrate the assessment/treatment of non-traumatic shock patient
- Demonstrate assessment/treatment of respiratory failure patient
- Demonstrate assessment/treatment of respiratory arrest patient
- Demonstrate assessment/treatment of cardiac failure patient
- Demonstrate assessment/treatment of cardiac arrest patient
- Demonstrate post-resuscitation management

15. **Apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient**

Learning Objectives
- Demonstrate assessment/treatment of patient with traumatic injury
- Demonstrate prioritizing trauma patient for care and transport
- Demonstrate rapid trauma assessment

16. **Apply a fundamental knowledge of growth, development, aging and assessment findings to provide basic emergency care and transportation for special populations**

Learning Objectives
- Demonstrate assessment/treatment of infant
- Demonstrate assessment/treatment of child
- Demonstrate assessment/treatment of geriatric patient
- Demonstrate assessment/treatment of OB/GYN patient

17. **Apply knowledge of operational roles and responsibilities to ensure patient, public and personnel safety**

Learning Objectives
- Describe general provisions of state laws relating to the safe operation of the ambulance and privileges in emergency and non-emergency response
- Discuss various environmental hazards affecting EMS
18. **Apply a fundamental knowledge of chronic disease process and assessment findings to provide basic emergency care and transportation for a patient with special needs**

   **Learning Objectives**
   - Demonstrate techniques used to assess hearing impaired patient
   - Demonstrate techniques used to assess visually impaired patient
   - Demonstrate techniques used to assess mentally impaired patient
   - Demonstrate techniques used to assess patients of various cultures
   - Demonstrate techniques used to assess patient requiring specialized home care

19. **Apply fundamental knowledge of advanced airway adjuncts**

   **Learning Objectives**
   - Identify patient needing advanced airway
   - Identify correct advanced airway for patient use
   - Demonstrate proper insertion and management of advanced airway

20. **Apply fundamental knowledge of the National Incident Management System (NIMS)**

   **Learning Objectives**
   - Demonstrate foundational elements of incident command
   - Demonstrate ability to function within ICS reporting structure
   - Identify roles of command staff and section chiefs

21. **Apply fundamental knowledge of emergency preparedness**

   **Learning Objectives**
   - Describe components of emergency management cycle
   - Describe components of emergency operations plan
   - Describe components of personal emergency plan

**SCC Accessibility Statement**

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