



## Emergency Medical Technician - Basic Course

New Horizons Regional Education Center - Butler Farm

Instructor - R. Gabany RN, BSBA, EMT-Instructor (766-1100 ext 3334)

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Hours of Instruction:	Two semesters - (2hours 20 minutes a day for 180 days)
Methods of Instruction:	Lecture / Discussion with audio-visual aids Demonstration and Practice (guided & independent) Small group interaction Consultation Triad / Simulations Readings
Medical Direction & Official oversight	The EMT program is approved and over seen by the Office of Emergency Medical Services. Medical Direction is an essential component of the EMT-B program. This requirement is paramount in assuring the provision of highest quality prehospital medical care. For the school year 2011/12, J. Garrison MD, Operational Medical Director has agreed to oversee the program.
Course Objectives:	<p>This course is designed to instruct a student to the level of Emergency Medical Technician - Basic, who serves as a vital link between health care and public safety. This includes all skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. Specifically, after successful completion of the program, the student will be capable of performing the following functions at the minimum entry level:</p> <ul style="list-style-type: none"><li>* Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care;</li><li>* Administer appropriate emergency medical care based on assessment findings of the patient's condition;</li><li>* Lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury; and,</li><li>* Perform safely and effectively the expectations of the job description.</li></ul> <p>EMT-B's provide service in an environment requiring special skills and knowledge in areas of communications, transportation and record keeping. They also serve as liaisons with other public safety services. ( fire, law enforcement, emergency management, FEMA) This course provides and introduction into these concepts. This course meets the National Highway Traffic Safety Administrations' National Standard Curriculum and the Office of Emergency Medical Services for the Commonwealth of Virginia. Standards of Learning from the Department of Education have also been identified. Copies of the Educational Model and complete learning objectives for the course are attached. Units of instruction include:</p> <ol style="list-style-type: none"><li>I. Basic Cardiac Life Support (CPR), emergency cardiac care &amp; First Aid</li><li>II. Preparatory, Scene Safety and Crime scene techniques, Anatomy &amp; Physiology, medical terminology</li><li>III. Airway management for Adult, Child and Infant</li><li>IV. Patient Assessment</li></ol>

- V. Trauma management, triage and vehicle extrication
- VI. Medical management & Obstetrics
- VII. Special Populations – Infants, Children and Geriatrics
- VIII. Operations, Mass Casualty, Hazmat and Incident Command  
Weapons of Mass destruction and Terrorism awareness
- IX. EVOC – Emergency Vehicle Operations
- X. Professional Development
- XI. Clinical observation and skills assessment

Lesson Objectives: The individual lesson objectives are set by DOT and meet the 1994 DOT EMT-B curriculum. Each student will have a complete list of all objectives in their notebook. They are also listed at the beginning of each chapter in the student Textbook.

Dual Enrollment  
Course Descriptions

**Emergency Medical Services (EMS) Courses for VCCS Institutions – Students are dual enrolled at Thomas Nelson Community College for the following courses.**

EMS 100 CPR for Healthcare Providers (1 CR) Provides instruction in Cardiopulmonary Resuscitation that meets current Emergency Cardiac Care (ECC) guidelines for Cardiopulmonary Resuscitation education for Healthcare Providers. Equivalent to HLT 105.

EMS 110 Emergency Vehicle Operator’s Course (EVOC) (1 CR) Prepares the student for certification in the operation of various emergency vehicles. Teaches proper operating procedures in both emergency and non-emergency situations. **ONLY if 18 years old with a valid VA driver license**

EMS 111 Emergency Medical Technician- Basic (6 CR) Prepares student for certification as a Virginia and National Registry EMT-Basic. Includes all aspects of pre-hospital basic life support as defined by the Virginia Office of Emergency Medical Services curriculum for Emergency Medicine Technician Basic. Prerequisite: CPR certification at the Health Care Provider level. Co-requisite: EMS 120.

EMS 120 Emergency Medical Technician-Basic Clinical (1 CR) Observes in a program approved clinical/ field setting. Includes topics for both EMS 111 and EMS 113, dependant upon the program in which the student is participating and is a co-requisite to both EMS 111 and EMS 113.

EMS 145 EMS Responses to Specialized Incidents (3 CR) Presents the EMS response and mitigation of specialized incidents such as hazardous materials, Weapons of Mass Destruction, natural disasters, and other specialized multi-casualty incidents.

HLT-106 (2CR) Focuses on the principles and techniques of safety and first aid.

Methods of Evaluation: The purpose of the evaluation process is to strengthen training efforts. There are three components of the over all grade: Related Instruction (test, quizzes and projects), Competencies (skills), and Employability skills (behaviors that impact on the work environment). Related Instructions minimum passing score is 76%. Students who do not meet the requirements will not be allowed to take the state exam. Attendance is very important and is REQUIRED in some aspects for meeting the requirements for State testing or certifications.

Clinical / Field Rotations: In addition to the required classroom hours of instruction, this course requires that the student have patient interactions in a clinical setting. Students that are 18 years of age or older will participate in a ride-a-long program with the Newport News Fire Department. Students under the age of 18 will participate in observation experience in the hospital emergency departments. Clinical / Field rotation time requirement minimal is 16 hours.

Performance is evaluated by an assigned clinical mentor. Documentation is evaluated by the course instructor. Appropriate attire and review of expectations can be located in the clinical rotation packet, furnished to the student prior to clinical.

- Clinical Agencies: Newport News Fire and Emergency Medical Services  
Hampton Fire Department  
Poquoson Fire and Rescue  
Sentara Care Plex – Hospital
- Textbook: American Academy of Orthopedic Surgeons (2011). *Emergency Care and Transportation of the sick and injured*, 10th edition, AAOS  
Jones & Bartlett Publishers, ISBN 978-0-7637-7828
- References: NHTSA (1994). National Standard Curriculum for Emergency Medical Technician – Basic
- NHTSA (2009) National Standard Curriculum for Emergency Medical Technician – Basic
- McKenna (2007) *Virtual Patient Encounters*, Mosby JEMS
- Campbell (2004) *BTLS: Basic Trauma Life Support for the EMT-B and First Responder*, 5th edition, Prentice Hall
- U.S. Department of Transportation, Pipeline & Hazardous Materials Safety Administration (2008) *Emergency Response Guidebook*
- Nancy L. Caroline, MD (2008) *Emergency Care in the Streets*, 6<sup>th</sup> edition, Jones & Bartlett
- Mack (2004) *EMT-B Certification Preparation and Review*, 3rd edition, Mosby
- Limmer, LeBaudour (2007) *EMT Complete A Basic Workbook*, Brady/Prentice Hall
- Nixon (2003) *Geriatric Prehospital Care*, Brady/Prentice Hall
- National Ski Patrol and the American Academy of Orthopedic Surgeons (2003) *Outdoor Emergency Care comprehensive prehospital guide for nonurban settings*, 4<sup>th</sup> edition, Jones and Bartlett
- American Heart Association, (2008) *Airway Management student guide*
- American Heart Association (2010) *Basic Life Support for Health Care Providers*