Course Syllabus
Wayne County Community College District
EMT 105 Medical First Responder

CREDIT HOURS: 3.00

CONTACT HOURS: 67.50

COURSE DESCRIPTION:

This course is an overview of emergency medical services, including Basic Life Support (BLS), patient assessment, triage, patient handling and management, bleeding and shock control, management of fractures, childbirth and other medical emergencies. This course is approved by the Michigan Department of Consumer and Industrial Services Division of EMS. If all comprehensive written and practical examinations are passed successfully the students are eligible to apply for licensure exams. This program is recommended for police officers, security officers, health professionals, fire fighters, or anyone who may have a duty to act during emergency situations.

EXPECTED COMPETENCIES

Upon successful completion of this course, the student will have competency in the following areas:

1. Preparatory
   1.1 Introduction to Emergency Medical Care
       Familiarizes the MFR with the aspects of emergency medical care. Topics covered include the EMS System, roles and responsibilities of the MFR, quality improvement, and medical direction
   1.2 Well-Being of the MFR (Communicable Disease)
       Covers the emotional aspects of emergency care, scene safety, body substance isolation (BSI), personal protection equipment (PPE), and safety precautions that can be taken prior to performing the role of an MFR
   1.3 Medical/Legal and Ethical Issues
       Explores the scope of practice, ethical responsibilities, DNR legislation, consent, refusals, abandonment, negligence, duty to act, confidentiality, and special situations such as crime scenes
   1.4 The Human Body (Anatomy and Physiology)
       Enhances the MFR's knowledge of the human body. Medical terminology, body systems, anatomy, physiology and topographic anatomy will be covered in this session
   1.5 Lifting and Moving Patients (Patient Handling)
       Provides the MFR with knowledge of body mechanics, lifting and carrying techniques, principles of moving patients, and an overview of equipment.
       Practical skills of lifting and moving will also be developed during this lesson
   1.6 AIRWAY (Airway, Oxygenation, Ventilation)
       Teaches airway anatomy and physiology, how to maintain an open airway, pulmonary resuscitation, variations for infants and children, and patients with laryngectomies. The use of airways, suction equipment, oxygen delivery systems, and resuscitation devices will be discussed in this lesson
1.7 Patient Assessment
Enhances the MFR's ability to evaluate a scene for potential hazards and evaluate mechanism of injury or nature of illness. Provides the knowledge and skills to properly perform the initial assessment. In this session, the student will learn about forming a general impression, determining responsiveness, assessment of the airway, breathing and circulation. Teaches the knowledge and skills required to continue the assessment and treatment of the patient.

1.8 Communications/Documentation
Discusses the importance of professional communication. It will assist the MFR in understanding the components of the written report, considerations regarding patient refusal, and special reporting situations.

1.9 Special Patient Considerations
This topic reviews situations of providing emergency care to geriatric patients and other patients who may need modified communications and special handling.

2. Medical
2.1 Respiratory Emergencies
This chapter reviews components of the lesson on respiratory anatomy and physiology. It will also provide instruction on assessment of respiratory difficulty and emergency medical care of respiratory problems.

2.2 Cardiovascular Emergencies (AED, CPR)
Review of the cardiovascular system, an introduction to the signs and symptoms of cardiovascular disease, and use of the automated external defibrillator are covered. Cardio Pulmonary Resuscitation should be introduced or reviewed in this session.

2.3 Other Medical Conditions
Discusses the recognition and management of altered mental status, Diabetes, CNS Illness, stroke, seizure, allergies, environmental emergencies, poisoning, abdominal illness and behavioral emergencies.

3. Trauma
3.1 Bleeding and Shock
Reviews the cardiovascular system, describes the care of the patient with internal and external bleeding, signs and symptoms of shock, and the emergency medical care of shock.

3.2 Soft Tissue Injuries (Facial, Eye, Burns, Abdominal Injury, Chest Injury)
The management of soft tissue injuries, burns, chest and abdominal injuries will be covered. Techniques of dressing and bandaging wounds will also be taught in this lesson.

3.3 Injuries to Muscles and Bones
Review of the musculoskeletal system, recognition of signs and symptoms of a painful, swollen, deformed extremity and splinting are taught in this section.

3.4 Head and Spinal Injuries
Injuries to the spine and head, signs and symptoms of injury, and assessment are covered. Emergency medical care, including the use of cervical immobilization devices and short and long back boards will also be taught.

4. Children and Childbirth
4.1 Obstetrical Emergencies
Management of normal and abnormal childbirth are covered.
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4.2 Pediatrics
   Presents information concerning the developmental and anatomical differences in infants and children, along with common medical and trauma situations

5. EMS OPERATIONS (Hazardous Materials, Rescue Extrication, Triage)
   Presents an overview of the knowledge needed to function in the prehospital environment. Provides the student with an overview of rescue operations, hazardous materials, mass casualty situations, and basic triage

ASSESSMENT METHODS

Student performance may be assessed by examination, quizzes, case studies, oral reports, group discussion, written reports or presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E