Course Number: HLTH-0009  
OHLAP Credit: No  
OCAS Code: 9373  
Course Length: 66 Hours  
Career Cluster: Health Science  
Career Pathway: Therapeutic Service  
Career Major(s): Emergency Medical Technician  

Pre-requisite(s): 
Course Description: This course prepares students for testing and registration through the Oklahoma State Department of Health or NREMI as an EMR. The primary focus of the Emergency Medical Responder is to initiate immediate lifesaving care to critical patients who access the emergency medical system. This course provides basic knowledge and skills necessary to perform lifesaving interventions while awaiting additional EMS response and to assist higher level personnel at the scene and during transport. The course is designed for fire fighters, law enforcement personnel, industry and first response providers within the community. This course follows the new guidelines set by the Oklahoma State Department of Health, that has increased from 44 hours to 66 hours. This course includes classroom and lab work. Clinical is not required for this course. Students will be introduced to School and Program Policies, Hazardous Material Awareness, Bloodborne Pathogen Awareness, HIPPA and Fire Safety.


Course Objectives: 
Preparatory 12 hours total (10.5 hours classroom, 1.5 hours lab)  
Uses simple knowledge of the EMS system, safety/well-being of the EMR, medical/legal issues at the scene of an emergency while awaiting a higher level of care.

EMS Systems Objectives 1.5 hours  
Simple depth, simple breadth of EMS systems

Research 0.5 hours  
Simple depth, simple breadth • Impact of research on EMR care • Data collection

Workforce Wellness and Safety 3 hours  
Simple depth, simple breadth:  
Standard safety precautions  
Personal protective equipment  
Stress management  
Dealing with death and dying  
Prevention of response-related injuries  
Lifting and moving patients

Documentation 0.5 hours  
Simple depth, simple breadth:  
Recording patient findings
EMR EMERGENCY MEDICAL RESPONDER

EMS System Communications 1 hour
Communication needed to:
Call for Resources
Transfer care of the patient
Interact within the team structure

Therapeutic Communication 0.5 hour
Medical/Legal and Ethics 3.5 hours
Simple depth, simple breadth
Consent/refusal of care
Confidentiality
Advanced directives
Tort and criminal actions
Evidence preservation
Statutory responsibilities
Mandatory reporting
Ethical principles/moral obligations
End-of-life issues

Anatomy and Physiology 2 hours classroom
Uses simple knowledge of the anatomy and function of the upper airway, heart, vessels, blood, lungs, skin, muscles, and bones as the foundation of emergency care.

Medical Terminology 0 hours
Uses simple medical and anatomical terms.

Pathophysiology 0 hours
Uses simple knowledge of shock and respiratory compromise to respond to life threats.

Life Span Development 0 hours
Uses simple knowledge of age-related differences to assess and care for patients.

Public Health 0 hours
Have an awareness of local public health resources and the role EMS personnel play in public health emergencies.

Pharmacology 1 hour (0.5 classroom 0.5 lab)
Uses simple knowledge of the medications that the EMR may self-administer or administer to a peer in an emergency.

Medication Administration 0.25 hour
Within the scope of practice of the EMR, how to
Self-administer medication
Peer-administer medication

Emergency Medications 0.25 hours
Simple depth, simple breadth within the scope of practice of the EMR:
Names
Effects
Indications
Routes of administration
Dosages for the medications administered
Airway Management, Respiration and Artificial Ventilation
10 hours (7 hours classroom, 3 hours lab)
Applies knowledge (fundamental depth, foundational breadth) of general anatomy and
physiology to assure a patent airway, adequate mechanical ventilation, and respiration
while awaiting additional EMS response for patients of all ages.

Airway management 2.5 hours
Fundamental depth, simple breadth within the scope of practice of the EMR:
Airway anatomy
Airway assessment
Techniques of assuring a patent airway

Respiration 2.5 hours
Fundamental depth, simple breadth:
Anatomy of the respiratory system
Physiology and pathophysiology of respiration:
Pulmonary ventilation
Oxygenation
Respiration
External
Internal
Cellular
Assessment and management of adequate and inadequate respiration
Supplemental oxygen therapy

Artificial Ventilation 2 hours
Fundamental depth, simple breadth of assessment and management of adequate and
inadequate ventilation:
Artificial ventilation
Minute ventilation
Alveolar ventilation
Effect of artificial ventilation on cardiac output

Assessment 12 hours or 13 hours (10 hours classroom, 3 lab)
Use scene information and simple patient assessment findings to identify and manage
immediate life threats and injuries within the scope of practice of the EMR.

Scene Size-up 2 hours
Complex depth, comprehensive breadth
Scene safety
Fundamental depth, foundational breadth
Scene management
Impact of the environment on patient care
Addressing hazards of Violence
Need for additional or specialized resources
Standard precautions

Primary Assessment 2 hours
Simple depth, simple breadth:
Primary assessment for all patient situations
Level of consciousness
ABCs of Identifying life threats
Assessment of vital functions
Begin interventions needed to preserve life
History taking 2 hours  
Simple depth, simple breadth:  
Determining the chief complaint  
Mechanism of injury/nature of illness  
Associated signs and symptoms

Secondary Assessment 2 hours  
Simple depth, simple breadth:  
Performing a rapid full body scan  
Focused assessment of pain  
Assessment of vital signs

Reassessment 2 hours  
Simple depth, simple breadth:  
How and when to reassess patients

Medicine 7 hours total (6 hours classroom, 1 hours lab)  
Recognizes and manages life threats based on assessment findings of a patient with a medical emergency while awaiting additional emergency response.

Medical Overview 0.5 hour  
Simple depth, simple breadth of assessment and management of a:  
Medical complaint

Neurology 0.5 hour  
Simple depth, simple breadth of anatomy, presentations and management of:  
Decreased level of responsiveness  
Seizure  
Stroke

Abdominal and Intestinal Disorders 0.25 hour  
Simple depth, simple breadth of anatomy, presentations and management of shock associated with abdominal emergencies:  
Gastrointestinal bleeding

Immunology 0.25 hour  
Simple depth, simple breadth in the recognition and management of shock and difficulty breathing related to:  
Anaphylactic reactions

Infectious Diseases 0.5 hour  
Simple depth, simple breadth in the awareness of:  
A patient who may have an infectious disease  
How to decontaminate equipment after treating a patient

Endocrine disorders 0.25 hour  
Simple depth, simple breadth in the awareness that  
Diabetic emergencies cause altered mental status

Psychiatric 0.5 hour  
Simple depth, simple breadth of the recognition of  
Behaviors that pose a risk to the EMR, patient or others
Cardiovascular 1 hour
Simple depth, simple breadth of anatomy, signs, symptoms and management of:
- Chest pain
- Cardiac arrest

Toxicology 0.25 hour
Simple depth, simple breadth
Recognition and management of:
- Carbon monoxide poisoning
- Nerve agent poisoning
- How and when to contact a poison control center

Respiratory 0.5 hour
Simple depth, simple breadth of anatomy, signs, symptoms and management of respiratory emergencies including those that affect the:
- Upper airway
- Lower airway

Genitourinary/Renal 0.15 hours
Simple depth, simple breadth:
Blood pressure assessment in hemodialysis patients

Gynecology 1 hour
Simple depth, simple breadth in the recognition and management of shock associated with:
- Vaginal bleeding

Diseases of the eyes, Ears, Nose and Throat 0.15 hours
Simple depth, simple breadth in the recognition and management of nose bleed

Shock and Resuscitation 8 hours (6 hours classroom, 2 hours lab)
Uses simple knowledge to recognize and manage life threats based on assessment findings for an acutely injured patient while awaiting additional emergency medical response.

Trauma 0.5 hour
No knowledge related to this competency is applicable at this level.

Bleeding 0.75 hour
Simple depth, simple breadth in recognition and management of: 
Bleeding

Chest Trauma 0.5 hour
Simple depth, simple breadth in the recognition and management of:
- Blunt versus penetrating mechanisms
- Open chest wound
- Impaled object

Abdominal and Genitourinary Trauma 0.5 hours
Simple depth, simple breadth in the recognition and management of:
- Blunt versus penetrating mechanisms
- Evisceration
- Impaled object

Orthopedic Trauma 1 hour
Simple depth, simple breadth in the recognition and management of:
Open fractures  
Closed fractures  
Dislocations  
Amputations  

**Soft Tissue Trauma 0.5 hours**  
Simple depth, simple breadth in the recognition and management of:  
Wounds  
Burns  
Electrical  
Chemical  
Thermal  
Chemicals in the eye and on the skin  

**Head, Facial, Neck and Spine Trauma 1.5 hours**  
Simple depth, simple breadth in the recognition and management of:  
Life threats  
Spine trauma  

**Special Considerations in Trauma 0.15 hour**  
Simple depth, simple breadth in the recognition and management of trauma in:  
Pregnant patient, Pediatric patient, Geriatric patient  

**Environmental Emergencies 0.5 hours**  
Simple depth, simple breadth in the recognition and management of:  
Submersion incidents  
Temperature-related illness  

**Multi-System Trauma 0.5 hours**  
Simple depth, simple breadth in the recognition and management of: Multi-system trauma  

**Incident Management 0 hours, Co or Prerequisite**  
Simple depth, simple breadth:  
Establish and work within the incident management system  

**Multiple Casualty Incidents 0.10 hour**  
Simple depth, simple breadth:  
Triage principles  
Resource management  

**Air Medical 0.10 hour**  
Simple depth, simple breadth:  
Safe air medical operations  
Criteria for utilizing air medical response  

**Vehicle Extrication 0.10 hour**  
Simple depth, simple breadth:  
Safe vehicle extrication  
Use of simple hand tools  

**Hazardous Materials Awareness 0 hours, Co or Prerequisite**  
Simple depth, simple breadth:  
Risks and responsibilities of operating in a cold zone at a hazardous material or other special incident
Mass Casualty Incidents due to Terrorism and Disaster 0.20 hours

With Optional Immobilization and splinting 6 hours (3 hours classroom, 3 hours lab

1 ODCTE Objective
All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures:
1. Students are graded on theory and lab practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
4. Students are only eligible to test for their license with an 80% or better GPA
5. Students wanting to take advantage of college credit/alignment agreements must maintain an 80% in their coursework.
6. Career Major grades established during coursework are a major criteria in successfully obtaining certification.

Description of Classroom, Laboratories, and Equipment:
Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 3.0 or better.