

Adopted

**Career Technical Credit Transfer (CT²)
Emergency Medical Technician-Paramedic (EMT-P)
Career Technical Assurance Guide (CTAG)
October 17, 2008**

The following course or Career-Technical Assurance Number (CTAN) is eligible for transfer between career-technical education, adult workforce education, and post-secondary education.

CTEMTP004 – Emergency Medical Technician – Paramedic (EMT-P)		Credits: <u>30 Semester/45 Quarter Hours</u>
<p>Advising Notes: Submitted course work must include proof of laboratory and clinical components. <u>Those persons holding current Ohio certification as an EMT-Paramedic will be given what the receiving institution is offering as credit for its CT² approved EMT-P course/s. The awarding of credit for the EMT-P course of study may decrease the time to associate degree completion, when such a degree is offered. Residency requirements and policies differ among colleges and universities and may affect the amount of credit to be awarded. In such cases, an associate of technical studies degree might serve as an alternative to the associate of applied science.</u></p>		
Prerequisite: Current Ohio EMT-Paramedic Certification		
Module IA	Human Anatomy, Physiology, and Pathophysiology	
Module I	EMS Systems/Roles and Responsibilities of the Paramedic	
Module II	Airway Management and Ventilation	
Module III	Patient Assessment	
Module IV	Trauma	
Module V	Medical	
Module VI	Special Considerations	
Module VII	Assessment Based Management	
Module VIII	Operations	
	Clinical Experience and Pre-Hospital Internship	
Minimum Hours = 200 Didactic 400 Laboratory, Clinical and Pre-hospital training		
<p>Disclaimer: <u>The learning outcomes and associated credit hours for the EMT-P do not include other special certifications associated with performing the duties of a paramedic such as Advanced Cardiac Life Support, CPAP, etc. These are regional and are often required to perform the duties of a paramedic.</u></p>		

Note: College credit hours assigned to CTANs are “relative values,” which are used to help determine the equivalency of submitted coursework or content. Once approved by a validation panel as a CT² course, students will be given what the receiving institution is offering as credit for its approved course.

The CTAN illustrates the learning outcomes that are equivalent or common in introductory technical courses. In order for completers to receive the indicated credit, institutions must document that their course/program content matches the learning outcomes in the CTANs. The program outcomes identified below represent the **technical course/content** found in EMT-P programs as defined by The State Board of Emergency Medical Services in Ohio Revised Code 4765. In some cases, completers must also hold certain licenses and/or certifications or have satisfied specific external validators such as the examination to acquire a certification as an Ohio EMT-Paramedic.

Pertinent to H. B. 66 legislation, industry standards and certifications provide documentation of student learning. Recognized industry standards are expectations established by business, industry, state agencies, or professional associations that defines training program curricular requirements, establishes certification or licensure criteria, and often serves as the basis for program accreditation.

Institutional Requirements and Credit Conditions:

1. The receiving institution must have accreditation from the Ohio Department of Public Safety Division of Emergency Medical Services to offer an EMT-P training program.
2. The applicant must have current Ohio certification as an EMT-Paramedic.
3. The applicant must provide proof to the receiving institution that she/he has completed an EMT-P training course offered by public assisted career-technical institution (secondary or adult) or state supported college.
4. Candidates for graduation from collegiate or university programs may have to satisfy additional degree requirements associated with the basic related or general education studies.
5. Admission requirements of individual institutions and/or programs are unaffected by the implementation of CT² outcomes.
6. Institutional residency requirements may affect the amount of transfer credit.

Description of the Profession

Paramedic

Paramedics have fulfilled prescribed requirements by a credentialing agency to practice the art and science of out-of-hospital medicine in conjunction with medical direction. Through performance of assessments and providing medical care, their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics primarily provide care to emergency patients in an out-of-hospital setting.

Paramedics possess the knowledge, skills and attitudes consistent with the expectations of the public and the profession. Paramedics recognize that they are an essential component of the continuum of care and serve as linkages among health resources.

Paramedics strive to maintain high quality, reasonable cost health care by delivering patients directly to appropriate facilities. As an advocate for patients, paramedics seek to be proactive in affecting long term health care by working in conjunction with other provider agencies, networks, and organizations. The emerging roles and responsibilities of the Paramedic include public education, health promotion, and participation in injury and illness prevention programs. As the scope of service continues to expand, the Paramedic will function as a facilitator of access to care, as well as an initial treatment provider.

Paramedics are responsible and accountable to medical direction, the public, and their peers. Paramedics recognize the importance of research and actively participate in the design, development, evaluation and publication of research. Paramedics seek to take part in life-long professional development, peer evaluation, and assume an active role in professional and community organizations.

CTEMTP004 – EMERGENCY MEDICAL TECHNICIAN - PARAMEDIC

Subject Codes -

Ohio Board of Regents Subject Codes Valid at The T Level for EMT - Paramedic

510904	EMERGENCY MEDICAL TECHNOLOGY/TECHNICIAN (EMT PARAMEDIC)	A PROGRAM THAT PREPARES INDIVIDUALS, UNDER THE REMOTE SUPERVISION OF PHYSICIANS, TO RECOGNIZE, ASSESS, AND MANAGE MEDICAL EMERGENCIES IN PREHOSPITAL SETTINGS AND TO SUPERVISE AMBULANCE PERSONNEL. INCLUDES INSTRUCTION IN BASIC, INTERMEDIATE, AND ADVANCED EMT PROCEDURES; EMERGENCY SURGICAL PROCEDURES; MEDICAL TRIAGE; RESCUE OPERATIONS; CRISIS SCENE MANAGEMENT AND PERSONNEL SUPERVISION; EQUIPMENT OPERATION AND MAINTENANCE; PATIENT STABILIZATION, MONITORING, AND CARE; DRUG ADMINISTRATION; IDENTIFICATION AND PRELIMINARY DIAGNOSIS OF DISEASES AND INJURIES; COMMUNICATION AND COMPUTER OPERATIONS; BASIC ANATOMY, PHYSIOLOGY, PATHOLOGY, AND TOXICOLOGY; AND PROFESSIONAL STANDARDS AND REGULATIONS.
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Ohio Department of Education Subject Codes Pertinent to EMT – Paramedic

07.0987 or 51.0904	EMERGENCY MEDICAL TECHNICIAN - PARAMEDIC	Emergency Medical Technician Paramedic (EMT-P). Specialized subject matter, laboratory, clinical and vehicle experiences designed to prepare EMT-As[EMT-Bs] and Advanced EMT-As [EMT-Is] to provide advanced life support in the pre-hospital phase of an emergency. Instruction includes patient assessment, trauma-triage, advanced airway management, cardiac management, EKG monitoring and electrical intervention, defibrillation, intravenous, intramuscular, and subcutaneous administration of medications, and other invasive procedures, delivery and newborn care, in-depth study of the pathophysiology of illness and injuries. The personnel trained may be members of fire departments, police departments, or other agencies that are involved in the emergency treatment and rescue of people.
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Learning Outcomes

Summary of Learning Outcomes

All outcomes essential

Note: In an effort to limit the size of the CTAG, the learning outcomes for each of the listed modules were taken from the EMT-P Module and Unit Objective Summary. Thus the listed outcomes summarize the specific behavioral objectives of the EMT-P training course. For greater detail the reader is referred to www.ems.ohio.gov/educationsite.asp. The reader should click on “initial training” and then chose “curriculum.”

MODULE IA ANATOMY, PHYSIOLOGY, AND PATHOPHYSIOLOGY

An extensive list of objectives for anatomy and physiology is part of the U.S. Department of Transportation’s National Standard Curriculum for the EMT-Paramedic. These objectives are listed at www.ems.ohio.gov/educationsite.asp. The reader should click on “initial training” and then chose “curriculum.” Click on “NHTSA EMT-Paramedic Curriculum” and then on A & P Objectives. According to this site the listed “objectives have been derived from many of the currently available resources in anatomy and physiology instruction that are typically part of allied health educational programs or other non-science curricula. The objectives that are listed below are in common with most of these programs. Paramedic education program should select courses or textbooks which cover this level of material.”

MODULE I EMS SYSTEMS/THE ROLE AND RESPONSIBILITIES OF THE PARAMEDIC

At the completion of this module, the paramedic student will understand the roles and responsibilities of a Paramedic within an EMS system, apply the basic concepts of development, pathophysiology and pharmacology to assessment and management of emergency patients, be able to properly administer medications, and communicate effectively with patients.

At the completion of these units the paramedic student will be able to:

- 1-1 understand his or her roles and responsibilities within an EMS system, and how these roles and responsibilities differ from other levels of providers.
- 1-2 understand and value the importance of personal wellness in EMS and serve as a healthy role model for peers.
- 1-3 integrate the implementation of primary injury prevention activities as an effective way to reduce death, disabilities and health care costs.
- 1-4 understand the legal issues that impact decisions made in the out-of-hospital environment.
- 1-5 understand the role that ethics plays in decision making in the out-of-hospital environment.
- 1-6 apply the general concepts of pathophysiology for the assessment and management of emergency patients.
- 1-7 integrate pathophysiological principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan.
- 1-8 safely and precisely access the venous circulation and administer medications.
- 1-9 integrate the principles of therapeutic communication to effectively communicate with any patient while providing care.
- 1-10 integrate the physiological, psychological, and sociological changes throughout human development with assessment and communication strategies for patients of all ages.

MODULE II AIRWAY MANAGEMENT AND VENTILATION

At the completion of this module, the paramedic student will be able to establish and/ or maintain a patent airway, oxygenate, and ventilate a patient.

At the completion of this unit the paramedic student will be able to:

2-1 establish and/ or maintain a patent airway, oxygenate, and ventilate a patient.

MODULE III PATIENT ASSESSMENT

At the completion of this module, the paramedic student will be able to take a proper history and perform a comprehensive physical exam on any patient, and communicate the findings to others.

At the completion of these units the paramedic student will be able to:

3-1 use the appropriate techniques to obtain a medical history from a patient.

3-2 explain the pathophysiological significance of physical exam findings.

3-3 integrate the principles of history taking and techniques of physical exam to perform a patient assessment.

3-4 apply a process of clinical decision making to use the assessment findings to help form a field impression.

3-5 follow an accepted format for dissemination of patient information in verbal form, either in person or over the radio.

3-6 effectively document the essential elements of patient assessment, care and transport.

MODULE IV TRAUMA

At the completion of this module, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the trauma patient.

At the completion of these units the paramedic student will be able to:

4-1 integrate the principles of kinematics to enhance the patient assessment and predict the likelihood of injuries based on the patient's mechanism of injury.

4-2 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with shock or hemorrhage.

4-3 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with soft tissue trauma.

4-4 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the management plan for the patient with a burn injury.

4-5 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.

- 4-6 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.
- 4-7 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for a patient with a thoracic injury.
- 4-8 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with suspected abdominal trauma.
- 4-9 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement the treatment plan for the patient with a musculoskeletal injury.

MODULE V MEDICAL

At the completion of this module, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the medical patient.

At the completion of these units the paramedic student will be able to:

- 5-1 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with respiratory problems.
- 5-2 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with cardiovascular disease.
- 5-3 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with a neurological problem.
- 5-4 integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with an endocrine problem.
- 5-5 integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with an allergic or anaphylactic reaction.
- 5-6 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with a gastroenterologic problem.
- 5-7 integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with a renal or urologic problem.
- 5-8 integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with a toxic exposure.
- 5-9 integrate the pathophysiological principles of the hematopoietic system to formulate a field impression and implement a treatment plan.
- 5-10 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with an environmentally induced or exacerbated medical or traumatic condition.
- 5-11 integrate pathophysiological principles and assessment findings to formulate a field impression and implement a management plan for the patient with infectious and communicable diseases.
- 5-12 describe and demonstrate safe, empathetic competence in caring for patients with behavioral emergencies.
- 5-13 utilize gynecological principles and assessment findings to formulate a field impression and implement the management plan for the patient experiencing a gynecological emergency.

5-14 apply an understanding of the anatomy and physiology of the female reproductive system to the assessment and management of a patient experiencing normal or abnormal labor.

MODULE VI SPECIAL CONSIDERATIONS

At the completion of this module, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for neonatal, pediatric, and geriatric patients, diverse patients, and chronically ill patients.

At the completion of these units the paramedic student will be able to:

- 6-1 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the neonatal patient.
- 6-2 integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the pediatric patient.
- 6-3 integrate the pathophysiological principles and the assessment findings to formulate and implement a treatment plan for the geriatric patient.
- 6-4 integrate the assessment findings to formulate a field impression and implement a treatment plan for the patient who has sustained abuse or assault.
- 6-5 integrate pathophysiological and psychosocial principles to adapt the assessment and treatment plan for diverse patients and those who face physical, mental, social and financial challenges.
- 6-6 integrate the pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the acute deterioration of a chronic care patient.

MODULE VII ASSESSMENT BASED MANAGEMENT

At the completion of this module, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for patients with common complaints.

- 7-1 At the completion of this unit, the paramedic student will be able to integrate the principles of assessment based management to perform an appropriate assessment and implement the management plan for patients with common complaints.

MODULE VIII OPERATIONS

At the completion of this module, the paramedic student will be able to safely manage the scene of an emergency.

At the completion of these units the paramedic student will be able to:

- 8-1 understand standards and guidelines that help ensure safe and effective ground and air medical transport.
- 8-2 integrate the principles of general incident management and multiple casualty incident (MCI) management techniques in order to function effectively at major incidents.

8-3 integrate the principles of rescue awareness and operations to safely rescue a patient from water, hazardous atmospheres, trenches, highways, and hazardous terrain.

8-4 evaluate hazardous materials emergencies, call for appropriate resources, and work in the cold zone.

8-5 have an awareness of the human hazard of crime and violence and the safe operation at crime scenes and other emergencies.

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