

# Emergency Medical Services

| *Online Course Catalog*



# Online Emergency Medical Services Course Catalog

Well-trained EMS providers are safer and more effective, improving outcomes and reducing liability for both the individual and their agency. That’s why we offer the best online learning and training management system purpose-built for public safety. More than 10,000 agencies rely on Vector Solutions to assign, deliver, track, and report online and in-person training in one place.

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Vector Solutions is organizationally accredited by the Commission on Accreditation of Pre-Hospital Continuing Education (CAPCE) and offers a comprehensive catalog of online EMS continuing education courses that are accepted by the National Registry of Emergency Medical Technicians (NREMT) and most states. Our courses allow EMRs, EMT-Basics, EMT-Intermediates, and EMT-Paramedics to complete their continuing education requirements for recertification in an engaging and easy-to-use format featuring scenario-based learning exercises.



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## AIRWAY

- Acute Respiratory Distress Syndrome
- Advanced Airways: Intubation and Beyond
- Basic Airway Skills and Adjuncts
- Capnography
- Mechanics of Breathing
- Respiratory Emergencies
- Respiratory System A&P Review
- Supplemental Oxygen
- Tracheostomies



### **Acute Respiratory Distress Syndrome (1-hour) [CAPCE CEH Category: Advanced]**

The Acute Respiratory Distress Syndrome course provides essential knowledge and skills for healthcare providers in identifying and managing acute respiratory distress syndrome (ARDS). Participants will learn to distinguish ARDS from other conditions, recognize its symptoms in patients, and effectively manage ARDS cases in the field. Given the critical nature of ARDS, this training is crucial for improving patient outcomes and increasing the chances of survival.

### **Advanced Airways: Intubation and Beyond (2-hour) [CAPCE CEH Category: Advanced]**

Every patient must have a patent airway to survive. As a result, airway management and ventilation are the most critical skills in the prehospital environment. This interactive online course is designed for advanced emergency responders, delving into advanced airway control in the prehospital setting. It explores a range of advanced procedures, from endotracheal intubation to surgical cricothyrotomy. You will gain a comprehensive understanding of when and how to employ these techniques, including indications, contraindications, advantages, disadvantages, and detailed procedural insights.

### **Basic Airway Skills and Adjuncts (1-hour) [CAPCE CEH Category: Basic]**

First responders need to know how to manage a patient's airway, no matter what level of training they have. This interactive online course provides comprehensive training for first responders in managing patient airways. Focusing on airway physiology, oxygenation principles, and assessment skills, you will learn to swiftly identify and address airway issues, distinguishing between ventilation and oxygenation problems. By delving into airway anatomy, basic adjuncts, suctioning techniques, and supraglottic airway devices, you will gain the expertise needed to rapidly secure and maintain a patent airway, ensuring proper oxygenation for patients in critical situations.

### **Capnography (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This course covers the use of capnography in prehospital patient care. Capnography measures the levels of carbon dioxide in exhaled air. It can be used to assess proper tube placement following intubation, but has many other uses as well. When combined with other diagnostic tools, it can provide a complete picture of what may be happening to the patient. This course covers the use of both colorimetric devices and digital monitoring, including capnometry and capnography. Objectives include recognizing the relevance of end-tidal CO<sub>2</sub> as a prognostic tool, applying capnography concepts to patient differential diagnoses, interpreting end-tidal CO<sub>2</sub> levels, and summarizing the basics of carbon dioxide and its role in the body.

### **Mechanics of Breathing (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Understanding how breathing works is critical to identifying and assessing respiratory pathologies. A proper understanding of the respiratory system and how oxygen O<sub>2</sub>, carbon dioxide CO<sub>2</sub>, and other respiratory measurements should be assessed can help EMS personnel determine the point at which the respiratory cycle may be breaking down. Is the patient receiving enough oxygen? Is that oxygen being used efficiently by the body? These kinds of questions can help guide treatment to ensure that the interventions provided are the most effective and appropriate to the patient's condition.



## **Respiratory Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Respiratory emergencies are among the most critical scenarios EMS providers face, requiring rapid assessment and intervention to prevent life-threatening outcomes. This interactive online course aims to strengthen your knowledge and skills in managing respiratory distress by providing a comprehensive understanding of respiratory anatomy, physiology, and pathophysiology. You will learn to identify the signs and symptoms of common respiratory emergencies, distinguish between upper and lower airway obstructions, and develop a systematic approach to evaluating and managing respiratory distress. The course also covers assessment techniques, including the use of diagnostic tools such as pulse oximetry and capnography, along with evidence-based protocols for airway management, medication administration, and ventilatory support. By the end of this course, you will be equipped with the confidence and expertise to effectively manage respiratory emergencies and improve patient outcomes.

## **Respiratory System A&P Review (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The process of breathing and respiration is a primary bodily function required to sustain life. A thorough understanding of the anatomical and physiological function of the structures of the respiratory system will assist you in providing adequate medical care to those in need. This course describes the basic components and functions of the respiratory system and how to differentiate between adequate and inadequate respiration.

## **Supplemental Oxygen (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Few things are as ubiquitous to what we do in EMS as the role of oxygen. Throughout the various training levels first responders, EMTs, and paramedics go through, oxygen administration has always been a large part of the overall treatment landscape. By exploring human metabolism, we've come to understand how oxygen arrives at the cellular level; from inhalation to cellular respiration, everything is interconnected. At sea level, inspired air has an oxygen concentration of approximately 21%. However, when atmospheric oxygen is insufficient or inaccessible to the patient, a supplemental source of oxygen is required. To compensate for breathing difficulties, disease complications, and a host of other considerations, it's necessary to understand how oxygen affects homeostasis and what dose of supplemental oxygen to provide the patient.

## **Tracheostomies (2-hour) [CAPCE CEH Category: Advanced]**

A tracheostomy is a surgical procedure that creates a tracheal stoma to facilitate respiration. In hospital settings, it is among the most common surgical procedures performed on critically ill patients. This means paramedics need to be prepared to respond to assist patients with tracheostomies by understanding the unique features of tracheostomy care so that they can provide effective suctioning, tube replacement, and ventilation when needed.



## MEDICAL

- Advanced Allergic Reaction Management
- Altitude Emergencies
- Aquatic Emergencies
- Assessment and Treatment of Altered Mental Status
- Asthma Advanced
- Basic Allergic Reaction Management
- Behavioral Emergencies
- Carbon Monoxide Poisoning
- Common Infectious Pathogens
- Complementary and Alternative Medicine
- Death and Dying
- Dementia: Overview, Assessment, and Care
- Endocrine System Emergencies
- Environmental Emergencies
- Epilepsy
- Epilepsy and Other Seizure Disorders
- HazMat Medical Emergencies
- Heat Illness and Emergencies
- Hematology
- HIV/AIDS Awareness
- Hypothermia Assessment and Treatment
- Immunology and Immunological Emergencies
- Methamphetamine
- MRSA Infections
- Narcotics Overdose
- Non-Traumatic Abdominal Injuries
- Obstetrical Emergencies
- Opioid Overdose & Naloxone Administration
- Poisoning and Overdose
- Prehospital Considerations for Burn Treatment
- Prehospital Pulmonary Embolism Care
- Sepsis
- Shock and Shock Management
- Stroke Assessment & Treatment
- Toxicology and Substance Abuse
- Tricyclic Antidepressant (TCA) Overdose





### **Advanced Allergic Reaction Management (1-hour) [CAPCE CEH Category: Advanced]**

The Advanced Allergic Reaction Management course provides EMS providers with the knowledge and skills necessary to respond effectively to allergic reactions and anaphylaxis, which can be life-threatening emergencies. Participants will learn about the physiology of allergic reactions and anaphylaxis, enabling them to recognize the signs and symptoms across various levels of severity. The course emphasizes the procedures for emergency medical treatment, equipping providers to intervene promptly and appropriately to ensure the best possible outcomes for patients experiencing allergic reactions or anaphylaxis.

### **Altitude Emergencies (1-hour) [CAPCE CEH Category: Basic]**

The Altitude Emergencies course provides comprehensive knowledge and skills for managing altitude-related medical emergencies. Ascent into high altitude puts the body in danger in several ways. With altitude illness, hypothermia, and frostbite being significant risks at high altitudes, this course covers the pathophysiology, signs, symptoms, and appropriate care for each condition. Participants will gain a deep understanding of the prevention and treatment of altitude illness, as well as the assessment and management of patients with hypothermia and frostbite. By the end of the course, participants will be equipped to recognize and provide prompt and effective care for altitude-related emergencies, ensuring the best possible outcomes for patients in these challenging environments.

### **Aquatic Emergencies (1-hour) [CAPCE CEH Category: Basic]**

The Aquatic Emergencies course focuses on the unique challenges and high-pressure situations that emergency responders face when dealing with aquatic emergencies. With drowning incidents being a common occurrence, it is crucial for responders to have a deep understanding of the pathophysiology of drowning, including the protective function of hypothermia, and to recognize the signs and symptoms of a drowning victim. The course also covers water-related traumatic injuries, watercraft accidents, the laws of pressure and gases in SCUBA diving, and the pathophysiology and appropriate care for diving emergencies such as decompression sickness. By completing this course, participants will gain the knowledge and skills necessary to effectively respond to and manage various aquatic emergencies, ensuring the best possible outcomes for the victims involved.

### **Assessment and Treatment of Altered Mental Status (1-hour) [CAPCE CEH Category: Basic]**

This course will review the meaning of altered mental status and explore some of the many possible causes. The course will also describe the frequency with which the most common causes occur. Assessment strategies for encounters involving altered mental status will be explored, along with treatment considerations.

### **Asthma Advanced (1-hour) [CAPCE CEH Category: Advanced]**

In this course, you will be presented with a variety of interesting opportunities to increase your understanding of how adults and pediatrics are continuously being impacted by asthma disorders and emergencies each day. You will have the chance to deepen your knowledge about the anatomy and pathophysiology that causes and affects asthma disorders in adults and pediatrics. Relevant medical case studies, medical terminology, and assessment strategies are presented, along with researched medications for treatments for use by BLS and ALS for patients with mild and severe asthma.

emergencies. The course will help you increase your confidence and base knowledge of awareness and skills you can apply in the field to provide the best patient care for adult and pediatrics patients who are experiencing asthma emergencies.

### **Basic Allergic Reaction Management (1-hour) [CAPCE CEH Category: Basic]**

The Basic Allergic Reaction Management course provides EMS providers with the knowledge and skills necessary to effectively respond to allergic reactions and anaphylaxis, which can be life-threatening emergencies. Participants will learn about the physiology of allergic reactions and anaphylaxis, enabling them to recognize the signs and symptoms of mild, moderate, and severe cases. The course emphasizes the importance of emergency medical treatment for these conditions, equipping providers to respond swiftly and appropriately to ensure the best possible outcomes for patients.

### **Behavioral Emergencies (1-hour) [CAPCE CEH Category: Basic]**

Emergency services personnel will respond to many situations involving behavioral emergencies. Some of these emergencies will be the result of an injury or acute illness of the patient. Others will be the result of mental illness or the use of mind-altering substances. Mental health issues incapacitate more people than all other health problems combined. This course discusses how EMS providers should approach these situations.

### **Carbon Monoxide Poisoning (1-hour) [CAPCE CEH Category: Basic]**

Carbon monoxide is one of the most inhaled toxins. Because of this, treating patients with carbon monoxide poisoning is an emergency situation that EMS responders often face. Because of its common symptoms, carbon monoxide is often misdiagnosed. EMTs and paramedics need to have a thorough comprehension of assessment benchmarks, and the evidence-based best practices when treating patients suffering from carbon monoxide poisoning all the while protecting themselves in the process. This course reviews how carbon monoxide poisons its victims, detailing the effects of carbon monoxide exposure, symptoms of exposure and treatment procedures for patients with carbon monoxide poisoning. Case-related examples will be given to help determine how to assess and treat victims of carbon monoxide poisoning.

### **Common Infectious Pathogens (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This course covers the fundamentals of infectious diseases and their prevention, including the definitions of key terms such as pathogen, port of entry, and PPE. Learners will also gain a basic understanding of common diseases like Hepatitis, Tuberculosis, and MRSA, and how to safely decontaminate people and equipment. By the end of the course, learners will have a solid foundation of knowledge to help prevent the spread of infectious diseases in various settings.

### **Complementary and Alternative Medicine (1-hour) [CAPCE CEH Category: Basic]**

Complementary and alternative medicine (CAM) is a collection of diverse medical and health care systems, practices, and products that are used by millions of Americans to treat or lessen disease. This course explores common CAM treatments, their impact on EMS, and the adverse effects of some CAM treatments and supplements.



## **Death and Dying (1-hour) [CAPCE CEH Category: Basic]**

The Death and Dying course prepares EMS personnel to navigate emotionally charged situations involving death and dying. It addresses the implications of patient death, provides insights into the reactions of survivors and patients, and explores comfort measures for both. The course also covers considerations for termination of care, the application of DNR orders, and the decision not to transport a patient. By completing this course, participants will gain the knowledge and skills necessary to handle these sensitive situations with empathy and professionalism.

## **Dementia: Overview, Assessment, and Care (1-hour) [CAPCE CEH Category: Basic]**

Dementia is not actually a specific disease. It is defined as a collection of symptoms, and can be caused by a number of disorders that affect the brain. These symptoms interfere with a person's ability to function at work, at home, and in social situations. Working with these patients is not always easy. It involves a deep understanding of this population and acquiring a variety of skills to meet their unique needs. In this course you will learn about the various types of dementia, conditions that mimic dementia, and a variety of techniques and principles for assessing and managing such patients.

## **Endocrine System Emergencies (1-hour) [CAPCE CEH Category: Advanced]**

The endocrine system is responsible for regulating growth, development, and metabolism through hormone secretion. Issues with the endocrine system, including hormonal imbalances, can have major health consequences. This interactive online course provides essential knowledge and skills for EMS responders to effectively assess and manage patients experiencing endocrine emergencies. You will learn to recognize and respond to various endocrinologic conditions, including hypoglycemia, hyperglycemia, diabetic ketoacidosis, thyrotoxicosis, myxedema, Cushing's syndrome, and adrenal insufficiency, gaining a comprehensive understanding of the associated risk factors, anatomy, physiology, and appropriate management strategies. Upon successful completion, participants will be well-equipped to make informed decisions that prioritize their patients' well-being and deliver effective care.

## **Environmental Emergencies (1-hour) [CAPCE CEH Category: Basic]**

Environmental emergencies include exposure to both heat and cold. Regulation of body temperature, which is an important physiological function, can be impaired under temperature extremes and result in heat or cold related illness. The key to effective management is recognizing the signs and symptoms and providing prompt emergency medical care.

## **Epilepsy (1-hour) [CAPCE CEH Category: Basic]**

This course covers the recognition, assessment, and management of patients with seizures, with a focus on the challenges faced by EMS personnel. It covers the epidemiology, pathophysiology, and different types of seizures, as well as the approach to patient assessment and management priorities. Additionally, the course discusses the importance of discerning a patient's medical history and medications when responding to seizure incidents.

## **Epilepsy and Other Seizure Disorders (1-hour) [CAPCE CEH Category: Basic]**

This interactive online course provides essential knowledge for recognizing, assessing, and managing seizure patients in the prehospital setting. You will learn about seizure epidemiology, pathophysiology,

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and the different types and phases of seizures. The course also covers patient behavior, restraint considerations, and high-priority interventions, including the management of status epilepticus. Understanding proper assessment and treatment strategies will help responders minimize risks and improve patient outcomes.

### **HazMat Medical Emergencies (1-hour) [CAPCE CEH Category: Basic]**

In the HazMat Medical Emergencies course, ALS personnel will explore advanced concepts and care related to hazardous materials (HazMat) incidents. This course serves as both an introduction and a refresher for ALS-trained individuals working in the HazMat specialty. Prior knowledge of Advanced Life Support (ALS) medical terminology and a basic understanding of chemical, biological, radiological, nuclear, and high yield explosives (CBRNE) concepts are prerequisites for this course. By the end, participants will have the ability to discuss advanced concepts of care, recall essential terminology and historical data, identify toxidromes, describe the physiological effects of toxic agents, and discuss pharmacology in HazMat medical emergencies.

### **Heat Illness and Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Body temperature is an integral part of our body's function. Like most of our body systems, we live in a narrow range of temperatures. Moving outside this range can have adverse effects. Several factors, both internal and external, can raise and lower our temperature and can have severe consequences. These conditions can result from environmental heat (heat produced outside the body) in extreme temperatures, as well as extreme exercise and pathological or drug-induced fevers. For the scope of this course, extreme temperatures will be defined as temperatures significantly higher than normal body temperatures.

### **Hematology (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Hematology allows you to understand how the organs in the body interact to ensure the body's normal balance, or homeostasis. The study of hematology allows for a better understanding of the body's functioning. And while pre-hospital care of hematological disorders is mostly supportive, an understanding of these diseases can guide you in your assessment and care of these patients. Rescuers who understand how hematology and hematological dysfunction affect the body's systems can perform more studied assessments across the patient care continuum and provide better treatment to patients. After completing this course, you will have a broadened set of skills from which to draw upon during hands-on training or real-world calls for service. This course prepares you from the cognitive side. Further hands-on training will round out what you acquire from this course.

### **HIV/AIDS Awareness (2-hour) [CAPCE CEH Category: Basic/Advanced]**

The HIV/AIDS Awareness course is designed to equip EMS personnel with the knowledge and skills necessary to prevent exposure to HIV and effectively respond to patients with HIV/AIDS. With HIV/AIDS being a significant public health concern globally, this course provides an understanding of how HIV infections occur and the most significant modes of transmission. It emphasizes the importance of controlling exposure through proper personal protective equipment and clothing and provides guidance on reporting exposure incidents. Additionally, the course covers emergency care for patients with HIV/AIDS and highlights the relevant laws related to HIV/AIDS. By completing this course, participants will be able to effectively mitigate the risks of exposure to HIV and provide appropriate care to patients with HIV/AIDS, ensuring the safety of both them and their patients.

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### **Hypothermia Assessment and Treatment (1-hour) [CAPCE CEH Category: Basic]**

Hypothermia is a medical illness which has impacted the condition of people's health for several centuries. Advancements in assessments, treatments, education, and technology have dramatically improved and now provide modern medical professionals with the ability to accurately and effectively treat patients diagnosed with a hypothermic condition. This interactive online course delves into the complexities of hypothermia and its various medical implications, providing a comprehensive understanding of terminology, historical context, and contemporary EMS practices. You will explore anatomy, physiology, pathophysiology, assessment techniques, treatment modalities, and transportation protocols relevant to hypothermia cases. By examining patient statistics and case studies from reputable agencies like the American Heart Association and the Centers for Disease Control and Prevention, you will gain valuable insights to enhance their problem-solving skills and confidence in managing hypothermic patients effectively.

### **Immunology and Immunological Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This interactive online course offers a comprehensive overview of immunology, emphasizing the functions of the immune system and their critical role in health and disease. You will learn to recognize and manage immunodeficiency and infectious diseases, understand the mechanisms of immune responses, and address immune-related conditions like anaphylaxis and autoimmune disorders. The course will cover the distinction between various pathogens, the anatomy involved in immune function, and the implications for treatment and safety in prehospital care. By the end, you will be equipped to identify immune-related symptoms and make informed treatment decisions.

### **Methamphetamine (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Methamphetamine abuse is a serious problem. According to one national survey, approximately 12.3 million people, ages twelve and older, in the U.S. have tried methamphetamine at least once. And due to its highly addictive nature, the number of these who have become addicted is likely significant. The consequences of meth abuse are devastating and wide-ranging, affecting the medical, psychological, and social arenas. The societal burdens of the drug, such as addiction, premature death, and drug treatment, cost the U.S. an estimated \$23.4 billion, according to a Rand Corporation 2005 study. Although a detailed study of this magnitude has not been performed since, based on their data and adjusted for inflation, the real costs to the citizens is nearly \$30.1 billion. That figure was the midpoint in the Rand Corporation study. Their high end would be well in excess of \$50 billion U.S. dollars today. Not surprisingly, first responders often find themselves on the front lines, confronting the most severe symptoms and effects of the methamphetamine problem. This course aims to provide EMS personnel with an understanding of the methamphetamine problem, its impact on users, and its associated hazards for EMS workers.

### **MRSA Infections (1-hour) [CAPCE CEH Category: Basic]**

MRSA bacteria have become endemic in hospitals and long-term care facilities and are becoming increasingly common in non-healthcare settings as well. This poses a considerable threat to emergency responders. Recent studies have found MRSA bacteria on many surfaces in fire stations and ambulances. This course provides an overview of methicillin-resistant *Staphylococcus aureus* (MRSA) and discusses key topics of particular concern to emergency responders. Through this course, providers will gain a better understanding of the risks of MRSA, how it is transmitted, how

to identify infection, how MRSA patients are managed, and how transmission can be prevented. Additionally, the importance of cleaning and disinfection and post-exposure procedures will be discussed.

### **Narcotics Overdose (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Narcotics overdose deaths have been on the rise in the U.S. for the last several years. This course provides a comprehensive understanding of prehospital considerations for narcotic overdose and misuse, tracing the historical evolution from natural sources to the modern era's potent synthetics. Delving into the mechanisms of narcotics, it explores their diverse routes of administration, effects on the body, and the nuanced dynamics of tolerance, dependence, and withdrawal. Through this, you will gain crucial insights into recognizing signs, implementing safety measures, and delivering appropriate responses as an EMS clinician. By course completion, you will have the knowledge to explain narcotics' historical progression, comprehend their physiological impacts, and employ effective treatment methods, including accessing available resources for addiction management.

### **Non-Traumatic Abdominal Injuries (1-hour) [CAPCE CEH Category: Advanced]**

Abdominal pain is a common complaint and results in over eight million emergency department visits each year. It can result from a variety of conditions with similar symptoms and it can be very difficult to diagnose. Patient response to abdominal pain varies widely and the examinations can be difficult to perform, especially in the prehospital environment. You do NOT need to diagnose the specific cause of non-traumatic abdominal pain in the field; however, you must recognize that acute abdominal pain may be a symptom of a life-threatening condition. An understanding of common causes of abdominal pain will help the provider determine the best transport destination for the patient and may help identify appropriate treatment. This course reviews the anatomy and physiology of the abdomen, the steps to assess a patient with acute abdominal pain, and the appropriate emergency medical care.

### **Obstetrical Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Have you encountered an emergency involving a pregnant person or even had to deliver an infant in an ambulance? Although childbirth usually occurs in the hospital setting, there are instances where EMS personnel may need to assist with delivering an infant in the prehospital setting. This interactive online course covers the anatomy and physiology of the female reproductive system and the body's changes during pregnancy that will help you provide the best care for a patient who is pregnant. You will also see the specific signs and symptoms of labor and delivery and what constitutes an abnormal delivery. This course also covers maternal trauma emergencies and medical conditions that complicate pregnancy.



## **Opioid Overdose & Naloxone Administration (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Opioid overdoses have risen to epidemic proportions in recent years. According to the Centers for Disease Control (CDC), 130 Americans die every day from an opioid overdose. As a common and life-threatening emergency, EMS providers of all levels must be prepared to recognize and effectively treat patients experiencing an opioid overdose. This course describes assessments and interventions that may be authorized at different provider levels in different jurisdictions. Providers must operate within the scope of practice and protocols established by their jurisdiction and medical director.

## **Poisoning and Overdose (1-hour) [CAPCE CEH Category: Basic]**

Thousands of children are poisoned every year as they explore their environments. Many adults overdose on medication, either accidentally or deliberately. Individuals can be inadvertently poisoned in their homes by any number of chemical hazards. Accidental and incidental exposures can present in a distinctive manner, but also very well hidden in plain sight. With early prehospital management, the vast majority of these patients have better outcomes. This course highlights how poisons enter the body and the emergency care of poisoning or overdose. In some cases, emergency care may include antidotes, decontamination, or copious flushing of the areas involved, and in other cases the administration of activated charcoal for patients with poisoning or overdose toxins that need to be sequestered from moving further into the gastrointestinal tract.

## **Prehospital Considerations for Burn Treatment (1-hour) [CAPCE CEH Category: Advanced]**

Burn care is a specialty, in and of itself, and presents many difficulties for any age of the patient, but particularly for pediatric patients where weight ranges can easily change the care necessary. This interactive online course provides a comprehensive overview of prehospital considerations for burn treatment, catering to both BLS and ALS personnel. You will delve into the complexities of burn care, with a focus on pediatric patients, gaining insights into skin anatomy, burn depth assessment, and TBSA categorization. By the course's conclusion, you will be equipped to assess and treat burn injuries effectively in the field and hospital settings, with a focus on understanding mechanisms of injury and implementing appropriate interventions for pediatric emergencies.

## **Prehospital Pulmonary Embolism Care (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The immediate, urgent care of victims of a pulmonary embolism is essential as many of the victims of this artery blockage die within the first hour of onset, and even more statistically succumb within the second hour. This places time sensitivity, field recognition or at least suspicion, and destination considerations first and foremost for the responding EMTs or paramedics. Throughout this course, you will revisit those components within both the content and case studies, to better prepare you for the management required during pulmonary embolism emergencies. After completing this course, you will have a broadened set of skills from which to draw upon during hands-on training or real-world calls for service. This course prepares you from the cognitive side. Further hands-on training will round out what is acquired from this course.

### **Sepsis (1-hour) [CAPCE CEH Category: Advanced]**

Each year over 750,000 patients are diagnosed with severe sepsis in the United States. Although most common in the hospital, sepsis often strikes patients in the out-of-hospital setting. There are many reasons for the frequency increase—an aging population, increasing frequency of immunosuppressant diseases, and an increase of drug-resistant bacteria. This training discusses the physiology and treatment of sepsis. After successfully completing this course, you will be able to: Understand some basic sepsis terms, including the definition of what sepsis is and what it is not, recognize the demographics of those most at risk for sepsis, and sepsis mortality, explain the pathology of an infection as it affects the body, understand the importance of, and how to prevent infection in the prehospital setting, and use a thorough assessment to recognize sepsis and provide aggressive management.

### **Shock and Shock Management (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Shock is a crucial concept in healthcare and understanding the patient's health. Shock is a true emergency and, simply put, is the process of dying. This online interactive course delves into the critical concept of shock in healthcare. You will gain a comprehensive understanding of how the body utilizes and transports oxygen to cells, exploring compensatory mechanisms designed to address oxygen delivery issues. By identifying the stages and types of shock, assessing patients for shock, and developing treatment plans, you will be well-equipped to anticipate the clinical progression of shock and effectively manage this life-threatening condition.

### **Stroke Assessment & Treatment (1-hour) [CAPCE CEH Category: Basic]**

Strokes kill more than 133,000 Americans each year, making it the fifth leading cause of death. Unfortunately, less than half of stroke patients access EMS for help. In this course learn stroke types, important assessment findings, and appropriate treatment. This course includes the updated information on Stroke Assessment and Treatment from the American Heart Association Guidelines for CPR and Emergency Cardiac Care. By the end of this course, you will be able to: Describe and discuss the epidemiology, pathophysiology, and types of stroke; Discuss the assessment findings associated with stroke; and Formulate a treatment plan for the management of stroke.

### **Toxicology and Substance Abuse (1-hour) [CAPCE CEH Category: Advanced]**

The Toxicology and Substance Abuse course addresses the rising frequency of toxic substance-related emergencies, particularly in the context of substance abuse. This course provides comprehensive insights into various types of toxicological emergencies encountered in the field, offering assessment and patient management strategies tailored to different toxin exposures. With a focus on common causative agents and assessment findings, participants will gain the necessary knowledge to effectively handle toxicological emergencies, emphasizing the importance of toxicology awareness and training for prehospital emergency care providers.

### **Tricyclic Antidepressant (TCA) Overdose (1-hour) [CAPCE CEH Category: Basic]**

Since tricyclic antidepressants are widely prescribed to treat patients with major depressive disorders they are frequently available to the suicidal patient. In 2004, there were over 12,000 reported TCA overdoses. In this course learn TCA indications, pharmacology, and assessment and treatment of TCA overdose patients. After successfully completing this course, you will be able to: Describe the indications for TCA medications, explore the pharmacology of TCA medications, and discuss assessment and treatment of TCA overdose patients.



## MEDICAL - CARDIOVASCULAR

- Acute Coronary Syndromes
- Basics of Arrhythmias: Tachyarrhythmias and Fibrillation
- Basics of Cardiac Arrhythmias and Premature Complex Rhythms
- Cardiac Emergencies
- Cardiovascular Anatomy & Physiology
- CPR Academic
- Fundamentals of 12 Lead ECG Operation and Interpretation
- Managing Cardiac Arrest: During and After Resuscitation
- Non-Traumatic Chest Pain
- Operating an AED
- Understanding the Basics of ECGs





## **Acute Coronary Syndromes (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Acute Coronary Syndromes encompass a range of cardiovascular diseases and conditions that can affect patients of various ages and health statuses. This interactive online course is designed to equip healthcare professionals with a comprehensive understanding of this critical condition, which is a leading cause of death in the United States. This course delves into the prevalence of ACS in the U.S., risk factors, pathophysiology, and classic signs and symptoms, while also addressing potential mimics. Moreover, it covers the interpretation of 12-lead ECGs for triage, evidence-based treatment strategies, and best practices for patient transport and hospital selection. Upon completing this course, you will gain the tools needed to confidently respond to ACS cases, although hands-on training is also recommended for a well-rounded skill set.

## **Basics of Arrhythmias: Tachyarrhythmias and Fibrillation (1-hour) [CAPCE CEH Category: Advanced]**

Understanding tachy-arrhythmias and fibrillation rhythms is a critical skill for EMS and/or fire rescue professionals. For the more than 350,000 people each year who suffer from cardiac arrest, 911 providers are the first line of defense against brain and heart damage or fatality. Tachy-arrhythmias are also associated with a range of heart diseases and conditions. Understanding how these rhythms develop and what etiologically significant events may have triggered them prepares EMS and/or fire rescue providers to respond to cardiac emergencies and give patients the treatment they require.

## **Basics of Cardiac Arrhythmias and Premature Complex Rhythms (1-hour) [CAPCE CEH Category: Advanced]**

Every year, thousands of patients are brought to emergency departments across the country for treatment for rhythm disturbances and the health complications with which they are associated. Additionally, over 800,000 patients are admitted to hospitals each year for treatment for arrhythmias. Yet countless more individuals in apparently good health also experience irregular heart rhythms and suffer no apparent adverse health effects.

## **Cardiac Emergencies (1-hour) [CAPCE CEH Category: Basic]**

More than 600,000 patients die each year from cardiovascular diseases. Half of these deaths occur before the patient reaches the hospital. Many times, collapse and sudden death is the first sign of cardiac disease. Although chest pain is common in cardiovascular emergencies, not all chest pain will result in cardiac arrest. This course highlights the signs and symptoms and the emergency medical care for patients experiencing angina pectoris, myocardial infarction, heart failure, cardiac tamponade, hypertensive emergency, and cardiogenic shock.

## **Cardiovascular Anatomy & Physiology (1-hour) [CAPCE CEH Category: Basic]**

For over 80 years, cardiovascular disease has been the leading cause of death in the U.S. More than 80 million people in America suffer from some cardiovascular disease. Of these, coronary heart disease is the most prevalent. It remains the leading cause of death nationwide. Because of the prevalence of cardiovascular conditions, it is essential for EMS personnel to understand the anatomy and physiology of the heart and the vascular system.

### **CPR Academic (1-hour) [CAPCE CEH Category: Basic]**

Each year approximately 250,000 people die of sudden cardiac arrest in the United States. Cardiopulmonary resuscitation (CPR) is a combination of rescue breathing and chest compressions delivered to victims thought to be in cardiac arrest. During cardiac arrest, the heart stops pumping blood, blood pressure falls to zero, and the pulse stops. Within 10 seconds a victim may lose consciousness and become unresponsive. CPR helps circulate blood that contains oxygen to the brain and other vital organs and can help “buy time” until help arrives. This course highlights how to recognize the signs of cardiac arrest, how and when to perform CPR, and how to use an AED to help a person in cardiac arrest. This course is meant to supplement CPR training conducted by the American Heart Association. It is not to be used as the primary guide for patient care. Please contact the American Heart Association for the hands-on class information.

### **Fundamentals of 12 Lead ECG Operation and Interpretation (1-hour) [CAPCE CEH Category: Advanced]**

This course offers a comprehensive introduction and refresher on interpreting 12-lead ECGs in the field of Advanced Level EMS. As a standard of care, understanding ECGs is crucial in mobilizing specialized hospital teams efficiently, particularly in ST-segment elevated myocardial infarctions (STEMIs). Covering electrode placement, autonomic nervous system impact, heart rate determination, and more, this course prepares both new learners and experienced professionals for real-world situations. Upon completion, participants will possess the skills needed for effective ECG analysis, enabling them to contribute to enhanced patient care and faster response times.

### **Managing Cardiac Arrest: During and After Resuscitation (2-hour) [CAPCE CEH Category: Advanced]**

As a professional rescuer, you need to prepare for an emergency in advance. In addition, you need to be physically and mentally prepared to provide emergency care. Managing cardiac arrest requires skill and knowledge on the part of the emergency responder. A patient suffering from cardiac arrest has a very small window of time before brain damage occurs, and responders have an equally small window of time in which resuscitation will be successful. Therefore, it is essential for EMS responders to have a firm grasp on cardiac arrest and management techniques for this emergency situation. Coronary artery disease (or CAD) is a common trigger for out of hospital cardiac arrest, especially in the case of shockable rhythms (which will be discussed later in this course). Teamwork is key: you need to collaborate, communicate, and coordinate the care of a cardiac arrest patient. This course discusses the appropriate care for patients suffering from cardiac arrest, including post-resuscitation management techniques.

### **Non-Traumatic Chest Pain (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This course covers the assessment and management of non-traumatic chest pain, which can be a symptom of serious underlying medical conditions, such as respiratory or myocardial dysfunctions. The course aims to help healthcare professionals understand the physiology and pathophysiology of cardiac functioning and disease, as well as the life-threatening potential of different clinical problems associated with chest pain. By integrating pathophysiological principles, healthcare professionals will be better equipped to assess and manage patients with chest pain in the field.

### **Operating an AED (1-hour) [CAPCE CEH Category: Basic]**

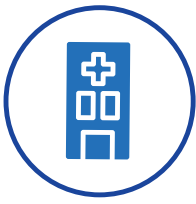
Every year, approximately 350,000 Americans experience sudden cardiac arrest, a condition often marked by sudden and unexpected collapse. In these dire moments, rapid defibrillation can be the difference between life and death. In this course, we address the critical importance of automated external defibrillators (AEDs) in increasing survival rates for cardiac arrest victims. This interactive online course will provide a comprehensive understanding of AED technology, proper usage procedures, special considerations, and maintenance practices. It also highlights how advancements have made AEDs accessible to EMS providers and citizen rescuers through public access defibrillation initiatives.

### **Understanding the Basics of ECGs (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The ECG Fundamentals course provides EMS personnel with essential knowledge and skills related to electrocardiogram (ECG) operation. ECGs are vital tools for diagnosing and treating various heart conditions, and both ALS and BLS providers must be proficient in their use. This course covers topics such as the principles of electrical conduction in the heart, the purpose and components of an ECG, interpretation of ECG graph paper, identification of ECG waves and leads, determination of heart rate, and the basics of recognizing arrhythmias. By the end of the course, participants will have a solid foundation in ECG fundamentals and be able to apply this knowledge in a variety of patient situations.

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## OPERATIONS

- Back Injury Prevention
- Communication and Documentation
- Confined Space Awareness
- Crime Scene Awareness
- Distracted Driving for Emergency Vehicle Operators
- Driving Safety
- Emergency Responder Rehabilitation
- Emergency Vehicle Operations
- Hazard Communication
- Human Trafficking Basics for First Responders
- Introduction to Hazardous Materials
- Medical Extrication and Rescue
- Patient Care Report Essentials
- Patient Lifting, Moving and Transportation
- Patient Restraint for EMS Providers
- Understanding Discrimination and Harassment in Fire and EMS



### **Back Injury Prevention (1-hour) [CAPCE CEH Category: Basic]**

The back is the most injury-prone part of the body. Back problems can result in pain, lost work time, inconvenience, and possible disability. Back injury incidents rank near the top of all occupational work injuries and head the list of injuries to EMS personnel. In large part, all back injuries are preventable. This course reviews data surrounding back injuries, how they happen, where they occur, and why they happen. Moreover, it reviews exercises, lifestyle modifications, posture, lifting, reaching, pulling, pushing, and ergonomic considerations.

### **Communication and Documentation (1-hour) [CAPCE CEH Category: Basic/Advanced/Operational]**

Communications is at the center of what and how, we, as emergency responders fulfill our professional responsibilities. How we listen and interact with 9-1-1 calling parties, dispatchers, co-responding agencies, allied health professionals, and others will determine whether those interactions are positive and successful or negative opportunities. Communications isn't related solely to the verbal realm. There is also non-verbal and written communication that will also be a part of every response that we go to. When we assess and treat a patient, the care that was provided can potentially go for naught if we fail to communicate all that we saw, did, and why we did those things to the staff at the patient's receiving facility. For fire rescue and EMS, communications begin when the call comes into the public safety access point or PSAP for 9-1-1. It continues during the pre-dispatch scripted questioning, during the dispatch/response phase and well after the call has actually ended. Therefore, knowing that communications lie at the heart of what we do professionally, fire rescue, EMS, and first responders of all stripes must have excellent communication skills now more than ever before. Communications link everything that we do. How we communicate has professional and potentially even personal outcomes. Helping you to be more effective and efficient in this vital skill is the goal of this course.

### **Confined Space Awareness (1-hour) [CAPCE CEH Category: Operational]**

Your most important concern when approaching the scene of an emergency is safety - for you, your crew members, and others on the scene. There are a variety of hazards you may encounter, including crash scenes, hazardous materials, crime scenes, or unstable surfaces. This training course is focused on the hazards associated with confined space entry. Confined spaces may seem harmless but can be extremely dangerous, even fatal. According to NIOSH, 60% of all fatalities associated with confined spaces are would-be rescuers. Recognizing confined spaces and the hazards that may be encountered in them is the first step in avoiding serious injury and death. This course provides awareness level training for activities related to confined space entry. It is imperative that emergency medical service personnel recognize the potential hazards that may be encountered while working in and around confined spaces and to understand safe work procedures that will promote safe and efficient operations in confined spaces. Additional training at your job site is recommended in order to gain a better understanding of the confined space procedures in your organization.

### **Crime Scene Awareness (1-hour) [CAPCE CEH Category: Basic]**

Do you know what to do when arriving at a crime scene? When responding to incidents involving criminal acts, your first priority is personal safety and scene security. This interactive online course covers crime scene awareness, including navigation, evidence preservation, and personal safety. You will learn how to seamlessly integrate your medical knowledge with criminal investigation principles, all while adhering to the EMS principle of "do no further harm."

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### **Distracted Driving for Emergency Vehicle Operators (1-hour) [CAPCE CEH Category: Basic]**

A brief gaze at a vehicle accident, a turn of the neck to look into the backseat, a routine cell phone conversation -- these all have the potential to cause a deadly motor vehicle accident. According to the National Highway Traffic Safety Administration, 6 to 8.3 million drivers crashed in the past five years as a result of being distracted. Distracted driving is receiving increasing attention from both the media and legislators, but there is still a long way to go before drivers are fully aware of the hazards involved. On average, drivers require about 3/4 of a second to react. When a driver's attention is diverted from the roadway ahead of the vehicle, that reaction time can be drastically increased, and traumatic injury or fatality can be the tragic end result. This course examines the problem of distracted driving and offers solutions and prevention measures for avoiding accidents due to distracted driving. Recent case studies are also presented along with a discussion of the lessons that can be learned from each.

### **Driving Safety (1-hour) [CAPCE CEH Category: Operational]**

Every year there are millions of EMS responses across the country that present an inherent risk to EMS providers and the public. The road can be a dangerous place for EMS personnel. There are thousands of collisions every year involving emergency vehicles responding to or returning from incidents. More than 80% of EMS provider fatalities are transportation-related. Whichever emergency vehicle you drive, it is a serious responsibility to minimize the risk of injury and death to yourself and others, as well as damage to expensive equipment. Since hands-on experience is a crucial element to safely operating an emergency vehicle, it is recommended that you attend a driving course approved by your agency. This training course is designed to review the basic principles of safe driving and highlight some of the risks you may encounter on the road as both a driver and as a passenger in an emergency vehicle.

### **Emergency Responder Rehabilitation (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Emergency Responder Rehabilitation course is designed to provide EMS personnel with a comprehensive understanding of the National Fire Protection Association (NFPA) Standard 1584, which guides emergency responder rehabilitation protocols. This course emphasizes the requirements outlined in the standard from an EMS perspective, covering topics such as positional requirements, heat and cold stress, medical monitoring, common injuries, assessment and treatment in the rehab area, and the key components of an effective rehab sector. By the end of the course, participants will be equipped with the knowledge and skills to implement proper rehabilitation practices for emergency responders, ensuring their health and well-being during operations and training exercises.

### **Emergency Vehicle Operations (1-hour) [CAPCE CEH Category: Basic]**

This course aims to review the fundamentals of emergency vehicle driving. Using contemporary examples and statistics, the need for training on this subject is emphasized. Factors to consider in route planning are also reviewed. Special attention is given as well to proper start-up procedures, fundamentals of safe driving, defensive driving, and positioning safely at the emergency scene.

### **Hazard Communication (1-hour) [CAPCE CEH Category: Basic]**

Exposure to hazardous chemicals can present numerous dangers to workers. More than 30 million workers are exposed to one or more chemical hazards across various industrial sectors. Hundreds of new hazardous chemicals are being introduced annually, in addition to the approximately 389,000 chemical substances tracked by the Chemical Abstract Services database (2019). Knowing that

chemical products may cause harm, the risk is increasing every year. OSHA's Hazard Communication Standard is designed to ensure that the information about these dangers is shared with those who need to know. This course covers OSHA's Hazard Communication Standard with an emphasis on what it is and how to comply. It also provides guidelines to help prevent chemical hazard incidents, and the adverse health effects that may result.

### **Human Trafficking Basics for First Responders (1-hour) [CAPCE CEH Category: Basic]**

Human trafficking is one of the world's most appalling crimes against our social and moralistic beliefs, and it continues to degrade our society as it persists and spreads. In this course, we seek to discuss and analyze the topic of human trafficking and how you, the first responder, can assist in identifying and investigating such incidents.

### **Introduction to Hazardous Materials (1-hour) [CAPCE CEH Category: Basic]**

The Introduction to Hazardous Materials course is tailored for emergency medical service personnel, providing them with essential knowledge and skills to effectively handle patients in hazardous materials incidents. By comprehending hazardous materials terminology, safety strategies, personal protective equipment, and decontamination processes, participants will be better equipped to respond to such incidents. Upon completion, learners will possess the ability to define hazardous materials, understand their effects, classify them, identify appropriate personal protective equipment, explain the decontamination process, and appreciate the pivotal roles EMS personnel play in responding to hazardous materials incidents.

### **Medical Extrication and Rescue (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Rescue and extrication operations can be very difficult for responding EMS personnel. These calls are often time-consuming, highly technical, stressful, and time-sensitive. Paramedics should possess the skills to remain calm while determining the best method for rescuing the patient, requesting additional resources, and executing their plan. This course will discuss the phases of a rescue operation, the hazards involved with various types of rescues, and the strategies for a successful outcome. While rescue operations can be highly specialized in specific locations, terrains, and situations, this course focuses on the main principles common to all rescue and extrication operations.

### **Patient Care Report Essentials (1-hour) [CAPCE CEH Category: Basic/Advanced]**

PCRs are the mechanism by which all care and treatments are recorded and conveyed to hospitals, your agency, and other local, state, and federal stakeholders. Furthermore, PCRs are the means by which your agency gets reimbursed for EMS activations, response, treatment, and patient transport to an appropriate facility. In addition to supplying data, the PCR is a legal document that articulates your observations, your assessment findings, and why you chose to perform or not perform an intervention or treatment. This document lives on, often in perpetuity, in accordance with your agency's and your state's recordkeeping requirements. This course reviews important aspects and considerations regarding EMS patient care reports. Along with these fundamentals, you will view various case studies, both real and fictional, that look at what can result from delayed, inaccurate, and/or poor documentation. The course also touches upon legal requirements for you as an EMS professional, and important considerations regarding the various data elements that comprise all PCRs.



### **Patient Lifting, Moving and Transportation (1-hour) [CAPCE CEH Category: Basic/Advanced]**

In today's environment, responding to emergency calls and providing high-quality patient care has become increasingly more demanding and strenuous on EMS personnel than ever before. As a result of this systemic pressure for improved patient care, both EMS and healthcare industries are reflecting a rising need for continuous training on patient lifting, moving, and transportation. For the purpose of this course, the term EMS responder refers to all levels of emergency medical personnel involved in incident response, including emergency medical technicians (EMTs), paramedics, and other personnel who perform similar duties. While many EMS responders are cross-trained as an EMT and firefighter, this specific course on patient lifting and transportation applies to these workers only when they are functioning as an EMS responder.

### **Patient Restraint for EMS Providers (1-hour) [CAPCE CEH Category: Basic/Advanced]**

EMS providers encounter patients who are combative or violent but require medical treatment and transportation. Frequently, these types of situations include a component of alcohol or substance, mental health issues, or some combination of those factors. This interactive online course delves into the complexities of patient restraint for EMS providers when encountering combative or violent patients requiring medical attention. Emphasizing the importance of empathy, composure, and careful decision-making, participants will learn about the various types of restraint, indications for their use, and ongoing care for restrained patients. Additionally, legal and ethical considerations surrounding patient restraint, including potential negative outcomes and liability issues, are explored to ensure patients' and providers' safety and well-being.

### **Understanding Discrimination and Harassment in Fire and EMS (1-hour) [CAPCE CEH Category: Operational/Management]**

Discrimination and harassment have serious consequences for first responders as well as public safety and trust. Implicit biases and social norms perpetuate these behaviors as stereotypes subconsciously influence decision-making. This interactive online course addresses the critical issue of discrimination and harassment within Emergency Medical Services (EMS) and fire departments, recognizing the detrimental effects on team cohesion and individual well-being. You will gain a comprehensive understanding of various forms of discrimination, including systemic racism and microaggressions, along with their impact on workplace dynamics. Additionally, the course highlights the unique challenges faced by LGBTQIA+ individuals in these settings and provides strategies for creating an inclusive environment that fosters respect and equality for all personnel. Legal obligations and relevant laws are also discussed to guide Fire and EMS departments in preventing and addressing discrimination and harassment effectively.



## OPERATIONS - MCI/DISASTER RESPONSE

- Emergency Response to Terrorism (4 modules)
- Incident Command System (ICS): with Applications for EMS
- Managing Multiple Casualty Incidents
- Weapons of Mass Destruction



### **Emergency Response to Terrorism (4 modules) (4-hour) [CAPCE CEH Category: Basic/Advanced/Operational]**

Increasingly, terror related activities are becoming more prevalent and are affecting everyday life for Americans. Whether homegrown or affiliated with an organization that is aligned with a known terror group, such events are becoming more and more normalized in our society. While by no means an everyday event, and hopefully a less than once in a career event, rescuers must be prepared and ready to respond if and when the need arises. This four-module program for first responders is essential for anyone who may be among the first to arrive at an incident of suspicious origin. It is intended to be a general introduction to “awareness level” concepts for first-responders arriving at the scene of a potential terrorist incident.

### **Incident Command System (ICS): with Applications for EMS (1-hour) [CAPCE CEH Category: Operational]**

In the aftermath of the 9/11 attacks on the World Trade Center, Pentagon, and in Pennsylvania, the Incident Command System (ICS) was implemented across the United States to enable multiple responding agencies to better function as a unified force within the complicated and demanding environments of large-scale and mass-casualty incidents. This course provides an overview of the incident command system with an emphasis on EMS operations.

### **Managing Multiple Casualty Incidents (1-hour) [CAPCE CEH Category: Advanced]**

EMS providers respond to varying emergencies, along with fire department and law enforcement personnel, on a regular basis. From time to time, large-scale events occur that require a greater number of first responders and specialty personnel to assist at the incident which will tax local resources and require mutual aid. These events may be a multiple alarm fire or an uncontrolled wildland fire. They may result from transportation accidents involving passenger vehicles, vehicles carrying freight, or both. They may involve a hazardous materials incident or random acts of violence, such as an active shooter. They ultimately can be any situation that involves the challenges that come with managing multiple patients.

### **Weapons of Mass Destruction (1-hour) [CAPCE CEH Category: Basic]**

Following the September 11, 2001 terrorist attacks on the World Trade Center and the Pentagon, the Centers for Disease Control recommended that health care professionals – including emergency responders – watch for any unusual disease patterns or symptoms that would suggest the intentional release of infectious biological, chemical, or radioactive agents by either foreign or domestic terrorists. This course is an introduction to WMD agents. After successfully completing this course, you will be able to: Discuss the history, delivery, and detection of biological, chemical and radioactive warfare agents, discuss the pathophysiology of biological, chemical and radioactive warfare agents, formulate a treatment plan for patients exposed to biological, chemical or radioactive warfare agents, and describe measures emergency responders can take to protect themselves against biological, chemical or radioactive warfare agents.





## PATIENT ASSESSMENT

- Assessing the Patient with Major Trauma
- Detailed Physical Exam
- Grey Area Calls
- Patient Assessment
- Rapid Secondary Assessment
- Special Challenges in Patient Assessment





## **Assessing the Patient with Major Trauma (2-hour) [CAPCE CEH Category: Basic]**

This course discusses assessment techniques for making the initial impression of patients as well as assessment elements specific to certain types of trauma injuries. A quick and thorough assessment of a trauma patient is the cornerstone for providing proper treatment and may aid in preventing death or permanent disability.

## **Detailed Physical Exam (1-hour) [CAPCE CEH Category: Basic]**

Trauma is one of the leading causes of death in the United States for individuals under age 50. Excessive forces applied to the body cause traumatic injuries, but, not all forces break the skin and cause bleeding. Some leave no signs at all initially, but cause damage beneath the surface that can be just as severe. The detailed physical exam is an integral part of competent and complete patient care. Sometimes called the focused physical exam or rapid trauma scan, it is typically performed after the initial assessment, usually while en-route to the most appropriate receiving medical facility. This course focuses on the steps necessary to perform a complete detailed physical exam. The properly conducted detailed physical exam provides considerable information about the patient's injuries or medical condition but can be time consuming. This detailed physical exam is performed only after an initial assessment is completed and all life threats are controlled.

## **Grey Area Calls (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This unique course is geared to paramedics and advanced level EMS providers. It delves into what can be described as fuzzy, blurry, or grey areas that comprise modern fire rescue and EMS medical calls for service. When EMTs and paramedics are trained, the latest textbooks and simulators are used to create a vivid backdrop that is intended to resemble how an actual patient presents to rescuers in the field. This training focuses on the patient's vital signs, symptoms, and complaints, given a literal textbook rendition of each malady. However, the patients that 9-1-1 responds to have not studied these same textbooks. Often, their complaints and symptoms can be far less clear than the textbook version. This course will address grey area concepts in many medical, trauma, and psychiatric patient subsets.

## **Patient Assessment (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Emergency scenes can be calm or chaotic. Developing an efficient system for analyzing a scene and patient in the prehospital setting ensures critical issues are not overlooked. This interactive online course is designed to equip healthcare professionals with a structured and efficient method for patient assessment in prehospital settings. You will learn key components such as scene size-up, ensuring scene safety, forming a general patient impression, and mastering the crucial elements of airway, breathing, and circulation. The course covers primary and secondary assessments, gathering pertinent patient history, and ongoing assessments, providing a comprehensive foundation for making informed decisions in the field and contributing to the definitive management of patients in various healthcare settings.

## **Rapid Secondary Assessment (1-hour) [CAPCE CEH Category: Basic]**

Accidental injuries are the leading cause of death for children and adults under 44 years of age, and patients with severe trauma pose a significant challenge in the prehospital environment. Rapid

Secondary Assessment plays a critical role in the care of such patients. For trauma patients with a significant mechanism of injury, it provides a more thorough means of assessing the patient's injuries and condition. When performed properly, rapid secondary assessment is both thorough and quick, and provides the EMS provider with a better understanding of the patient's injuries and their severity so that he or she can make better informed decisions about patient care. This course provides an overview of rapid secondary assessment. It aims to give EMS providers a better understanding of the importance and method of performing a rapid secondary assessment over each major body section. Also included in the course are sectional case studies that allow the learner to apply their knowledge.

### **Special Challenges in Patient Assessment (1-hour) [CAPCE CEH Category: Basic]**

Assessment of a patient is extremely important and performing a thorough and accurate assessment can be the key to saving a patient's life. In some cases, however, the difficulty of providing an accurate assessment and taking a thorough patient history increases. For example, the emergency provider may face challenges such as language barriers, intoxication, refusal to talk, and mental illness. The emergency provider must learn the skills to effectively work around these situations to initiate and complete an appropriate patient assessment in order to ensure successful care and positive outcomes.

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## PEDIATRIC

- Neonatology
- Pediatric Emergencies (2 modules)
- Pediatric Ingestions
- Pediatric Seizures
- Pediatric Shock
- Pediatric Trauma



### **Neonatology (2-hour) [CAPCE CEH Category: Basic]**

The goal of this course is to increase knowledge and awareness, as well as present advanced concepts and care for all Advanced Life Support (ALS) personnel. This course will introduce new concepts and shall provide an ideal refresher for those ALS-trained individuals currently working in the field of Prehospital Care, as well as those who work in location-based settings. The care of the neonatal patient is a specialty, in and of itself, and presents many difficulties as minor miscalculations can be the difference between a good outcome, and a fatal one.

### **Pediatric Emergencies (2 modules) (2-hour) [CAPCE CEH Category: Basic/Advanced]**

This course focuses on the unique aspects of providing emergency medical care to pediatric patients. It addresses the differences in anatomy, physiology, and development between adults and children, and emphasizes the importance of modifying the approach to suit the needs of pediatric patients. The course also covers assessment strategies for both the child and their parent or caregiver, and provides an overview of treatment methods for pediatric respiratory emergencies. By completing this course, participants will gain the knowledge and skills necessary to effectively handle common emergencies involving pediatric patients.

### **Pediatric Ingestions (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Pediatric Ingestion course is designed to equip prehospital care providers with the knowledge and skills necessary to assess and manage pediatric patients with known or suspected poisoning. With ingestion being the primary cause of pediatric poisoning cases, this course emphasizes the rapid assessment and identification of toxic agents, as well as the utilization of available resources for patient care. The course covers both Basic Life Support (BLS) and Advanced Life Support (ALS) interventions, and participants are encouraged to follow their local EMS protocols and scope of practice. By the end of the course, participants will be able to discuss prehospital considerations for pediatric ingestions, access the poison control center appropriately, identify common toxidromes, describe interventions for single-dose agent overdoses, recognize dangerous foreign body ingestions, and stay informed about emerging poisoning threats to the pediatric population.

### **Pediatric Seizures (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Seizures are encountered commonly when treating pediatric patients, and proper management of pediatric seizures is critically important. This course discusses how to identify types of pediatric seizures, how to manage the airway and breath, what neurological and circulatory status to check for, steps for managing different types of seizures, and more.

### **Pediatric Shock (1-hour) [CAPCE CEH Category: Advanced]**

This course covers the different types and stages of shock in pediatric patients, which is responsible for millions of deaths each year. The course discusses how delays in recognizing and treating shock can lead to irreversible organ failure and death. The course also covers the signs and symptoms of shock in infants and children, the different types of shock, and management strategies for treating pediatric shock. After completing this course, students will be able to conduct initial and secondary assessments, identify special considerations for pediatric shock, and understand the important terms associated with pediatric shock.



## **Pediatric Trauma (2-hour) [CAPCE CEH Category: Basic/Advanced]**

Traumatic injury is the leading cause of death in young children and adolescents. Children have unique medical needs. Therefore, it is essential that responders have a thorough understanding of pediatric traumatic injuries and the knowledge to manage these incidents. This two hour course discusses the types of pediatric trauma incidents and management methods of each.

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## PEDIATRIC - AIRWAY

- Pediatric Airway Management
- Pediatric Respiratory Emergencies: Upper and Lower Airway for the First Responder



### **Pediatric Airway Management (1-hour) [CAPCE CEH Category: Basic]**

Few calls produce more anxiety for the EMS professional than the appropriate management of the pediatric airway. We must be confident in our knowledge of the airway along with airway management tools and their use. In this course, we will review the anatomy of the pediatric airway, devices to use in managing the pediatric airway, and the use of pulse oximetry and capnography. We will also look at endotracheal intubation, an advanced airway management technique.

### **Pediatric Respiratory Emergencies: Upper and Lower Airway for the First Responder (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Although pediatric patients typically make up only about ten percent of all EMS calls, breathing difficulty is a common chief complaint. This interactive online course delves into the complexities of pediatric respiratory emergencies, offering insights into their causes, pathophysiology, and management. You will learn to navigate the unique challenges posed by respiratory distress in pediatric patients, including the importance of accurate assessment and interpretation of caregiver input. By the end of the course, you will be equipped to identify primary causes of cardiac arrest in pediatric patients, explain respiratory distress pathophysiology, and describe the assessment and management of pediatric respiratory emergencies in both the upper and lower airways.

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## PEDIATRIC - CARDIOVASCULAR

- Pediatric Cardiac Arrest
- Pediatric Cardiac Emergencies





### **Pediatric Cardiac Arrest (1-hour) [CAPCE CEH Category: Advanced]**

Each year in the United States, more than 20,000 infants and children suffer cardiac arrest. On average, prehospital emergency care providers are called to treat out-of-hospital cardiac arrest in more than 7,000 infants and children. Of these, 11.4% survive to hospital discharge. This interactive online course covers major concepts of cardiac arrest in infants and children, the AHA guidelines for treatment of children in cardiac arrest, and post-cardiac arrest care. Pediatric cardiac arrest can be one of the most stressful situations for any prehospital care provider. Managing the resuscitation effort can call upon most of the skills and resources you have in the most demanding conditions.

### **Pediatric Cardiac Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Children's hearts are structurally and physiologically different from adults, resulting in distinct presentations, risk factors, and treatment considerations. Rapid recognition and appropriate management of these time-sensitive conditions are crucial to improving outcomes and preventing devastating consequences. This interactive course delves into the intricacies of managing cardiac emergencies in the pediatric population. You will gain insights into the epidemiology, anatomical variations, and congenital cardiac defects affecting pediatric patients, enabling you to conduct comprehensive assessments and provide timely interventions. By the course's conclusion, you will be equipped with the knowledge and skills necessary to recognize, manage, and facilitate optimal care for pediatric cardiac emergencies in the prehospital setting, emphasizing the importance of effective communication and seamless transition of care.

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## PEDIATRIC - PATIENT ASSESSMENT

- Pediatric Assessment



## **Pediatric Assessment (1-hour) [CAPCE CEH Category: Basic/Advanced]**

More than 20,000 children die each year in the United States due to traumatic incidents and injuries. It is crucial that EMS providers understand how to assess the pediatric patient and determine if potential life threatening conditions exist. An organized and well-developed assessment of the pediatric patient serves as a valuable tool for the provision of care. Because a pediatric patient's condition can change quickly, the assessment process continues throughout the time spent with a patient.

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## PHARMACOLOGY

- Intraosseous Infusion
- Medication Errors
- Pain Management
- Pain Transmission, Perception, and Assessment
- Pharmacology Special Considerations
- Prehospital Pharmacology and Drug Administration





### **Intraosseous Infusion (1-hour) [CAPCE CEH Category: Advanced]**

Intraosseous infusion (IO) is an advanced medical procedure that allows for medications, fluids, and blood products to be directly injected into the bone marrow space. This interactive online course delves into the critical skill of intraosseous infusion, a method of vascular access vital for administering fluids and medications when standard intravenous access is challenging or unavailable. You will gain a comprehensive understanding of the history, anatomy, indications, contraindications, complications, and equipment associated with intraosseous cannulation. By the course's conclusion, you will be proficient in recognizing when and how to perform intraosseous infusion effectively, making it an essential aspect of emergency medical care for both pediatric and adult patients, particularly in critical scenarios such as cardiac arrest.

### **Medication Errors (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Have you ever made an EMS medication dosing error? What constitutes a dosing error? What should you do if you make a mistake or see a colleague make one? These are essential considerations that will be discussed in this course, along with the science behind why these medication errors can occur in the first place. From data reviews to near-miss reporting, this course on EMS Medication Errors takes a hard look at human fallibility as it relates to the administration of medications by EMS providers. When a medication error occurs in the prehospital setting, the consequences can be serious. For the patient, the error can cause adverse health effects that could be life-threatening. For the person that commits the medication error and the agency they work for, there can also be consequences, especially if the error was not reported. This course provides a general overview of medication errors in the prehospital setting. It discusses the various kinds of medication errors that can occur, and strategies for preventing them. It also covers how to investigate the underlying causes of medication errors and why reporting errors is important.

### **Pain Management (1-hour) [CAPCE CEH Category: Basic]**

Pain is the most common patient complaint, and a patient's desire for pain relief often exceeds their desire to identify and resolve the cause of pain. A position paper of the National Association of EMS Physicians (NAEMSP) states, "The NAEMSP believes that the relief of pain and suffering of patients must be a priority for every Emergency Medical Services System." As a prehospital care provider, you will be called countless times to patients who have suffered injury or illness that results in pain. Depending on your certification level and the protocols of your agency, you may simply splint or stabilize the injury while waiting for assistance. If indicated, you may also have the opportunity to administer a wide variety of both narcotic and non-narcotic medication to help ease your patient's pain. As you progress through the course and continue to invest in your education, please remember that it is your duty not to judge your patient's perception of pain, but to professionally and confidently care for them.

### **Pain Transmission, Perception, and Assessment (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Pain is a prevalent complaint in emergency medicine, and patients expect effective pain assessment and treatment as a priority. This interactive online course is designed to address the critical issue of under-treated pain, especially within prehospital clinical settings. This course delves into the pathophysiology of pain, different classification methods, and the importance of understanding pain

as a subjective experience. By the end of this course, you will be equipped to methodically assess and manage pain in diverse clinical situations, ensuring not only patient satisfaction but also improved outcomes and effective communication of symptoms.

### **Pharmacology Special Considerations (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Understanding the nuances of medication administration across diverse patient demographics is paramount. Special populations, including pediatric, geriatric, and obstetric patients, present unique challenges due to their distinctive physiological and anatomical characteristics. This interactive online course delves into the intricacies of medication administration for special patient populations, including pediatric, geriatric, and obstetrical patients. You will explore the critical anatomical and physiological differences that influence pharmacokinetics and pharmacodynamics in these groups, enabling them to adjust medication dosing, administration, and monitoring effectively. By understanding the complexities of drug administration in special populations and developing communication strategies for discussing medication management with patients and caregivers, you will enhance your ability to ensure safe and effective treatment outcomes while considering legal and ethical considerations in pharmacology.

### **Prehospital Pharmacology and Drug Administration (1-hour) [CAPCE CEH Category: Advanced]**

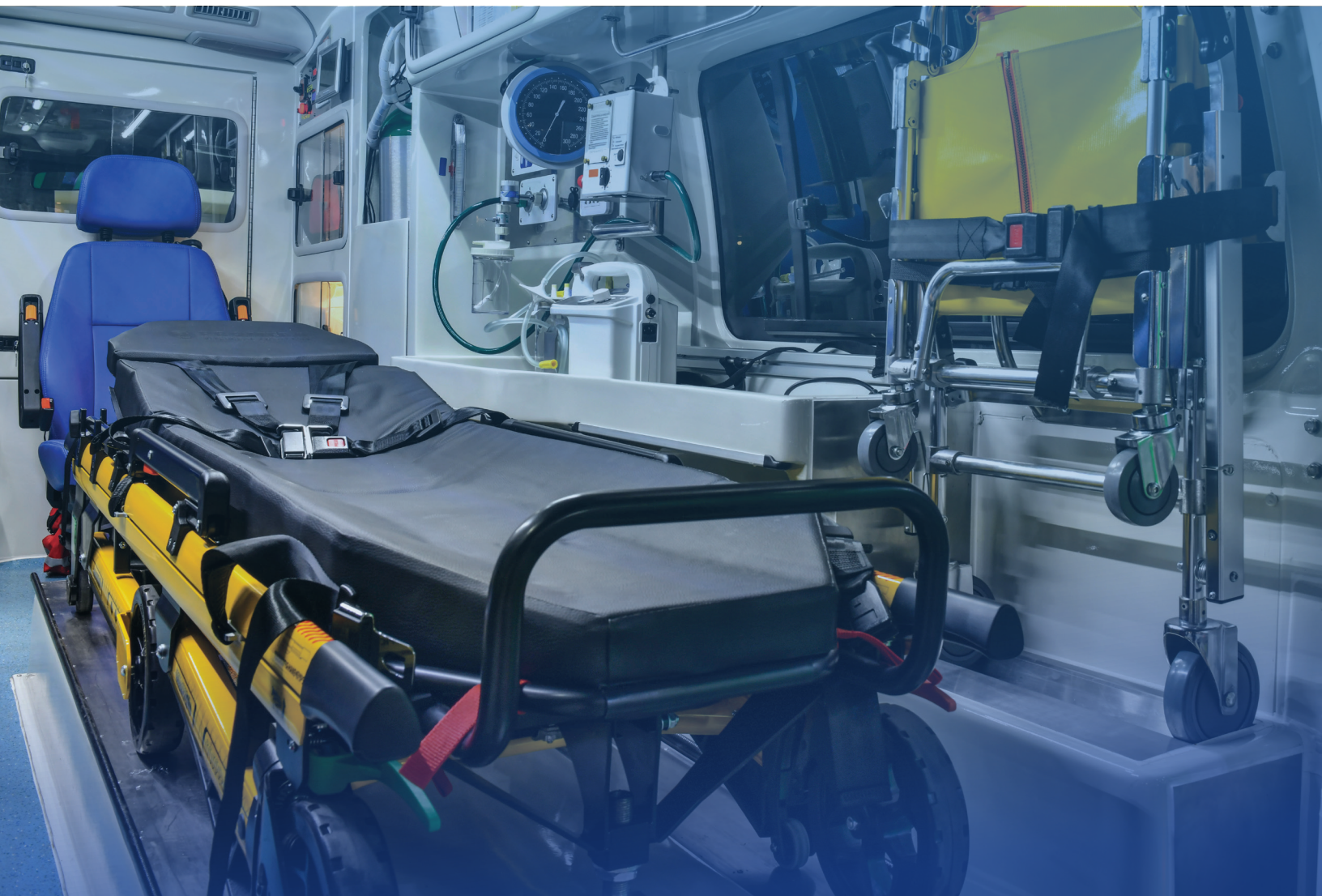
Pharmacology is an integral part of what an EMS clinician needs to know to be effective in the field. Administering the proper medications can greatly improve patient outcomes, but there are inherent risks, as inappropriate administration can cause harm or even death. A comprehensive understanding of prehospital pharmacology is essential for safe and effective treatment. This interactive online course introduces medications commonly used in the prehospital environment and covers legal considerations, the Six Rights of Medication Administration, routes of administration, special considerations, and various drug profiles.

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## PREPARATORY

- Bloodborne Pathogens Safety
- Clinical Decision-Making
- Controlled Substance Compliance
- Ethics for EMS Providers
- Functional Communication for EMS Providers
- HIPAA Awareness
- Infectious Disease Control
- Medical, Ethical, and Legal Issues
- Patient Refusal
- Prehospital Considerations for Diversity, Equity and Inclusion in EMS
- The Human Body Part 1 - Critical Systems
- The Human Body Part 2 - Other Systems





### **Bloodborne Pathogens Safety (1-hour) [CAPCE CEH Category: Basic]**

Bloodborne pathogen (BBP) exposures occur every day, and you may not even notice. Workers who frequently handle blood, bodily fluids, materials contaminated with blood or bodily fluids, and medical waste are exposed to BBP infections at a higher rate than the general working population.

### **Clinical Decision-Making (1-hour) [CAPCE CEH Category: Basic]**

This course is designed to help EMS providers develop strong clinical decision-making skills in the pre-hospital environment. Providers must be able to gather and synthesize information quickly and develop patient management plans in changing conditions. The course covers factors that influence medical care in the pre-hospital environment, benefits and shortfalls of different scopes of practice, differentiation of patient conditions, critical thinking processes, and mental health factors that may impact an EMS worker's ability to think critically on scenes. Upon completion, providers should be able to apply critical thinking elements and make effective decisions in the pre-hospital environment.

### **Controlled Substance Compliance (0.5-hour) [CAPCE CEH Category: N/A]**

This course is designed to provide an overview of Drug Enforcement Administration (DEA) compliance considerations for agencies that store and dispense controlled substances used during the provision of emergency medical care and transportation. The course will review the DEA requirements set forth in Code of Federal Regulations (CFR) Title 21, Part 1300 to the end. These requirements are universally applied to all DEA registrants and are relevant to EMS organizations that are registered as either Mid-Level Practitioners (MLP)–Ambulance Service or Practitioners.

### **Ethics for EMS Providers (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Have you ever found yourself in situations where you had to make critical decisions about patient care, determine what can or cannot be done, or weigh the ethical considerations of your actions? In the fast-paced world of Emergency Medical Services (EMS), these dilemmas are all too common. This interactive online course covers essential skills to navigate complex ethical challenges. Topics include understanding ethics terminology, identifying personal and professional codes of ethics, recognizing ethical dilemmas, and implementing effective problem-solving strategies. As EMS technology evolves rapidly, this course empowers providers to make sound ethical judgments, even in the absence of specific laws or rules.

### **Functional Communication for EMS Providers (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Effective communication is crucial for obtaining critical information about a patient's medical history and condition. This interactive online course addresses the challenges EMS clinicians face when communicating with patients, especially in crisis situations. The course covers therapeutic communication techniques, strategies for conducting effective patient interviews, and methods for building rapport with patients. Additionally, it explores ways to develop cross-cultural competence to ensure that clinicians can provide the best possible care to culturally diverse patients.

### **HIPAA Awareness (1-hour) [CAPCE CEH Category: Basic/Advanced/Operational]**

The Health Insurance Portability and Accountability Act (HIPAA) was passed by the U.S. Congress in 1996 and aims to protect patients' health information from being improperly used or disclosed. Since 2003, when enforcement of the Privacy Rule began, over 77,000 complaints have been received by the U.S. Department of Health & Human Services (HHS). Nearly 20,000 of these were investigated, and the organizations that had violated HIPAA were required to make changes to their privacy practices, or take other corrective actions. Some were also forced to pay fines and penalties. This course reviews the federal HIPAA regulations and discusses the duties and responsibilities that are required of EMS personnel and agencies. It also explains the various rights that HIPAA provides to patients and the safeguards that are required when dealing with patient health information. By complying with HIPAA, you will protect patients' confidentiality and ensure that any use or disclosure of their information protects you and your organization from legal liability.

### **Infectious Disease Control (1-hour) [CAPCE CEH Category: Basic/Advanced/Operational]**

This interactive online course addresses the inevitable exposure to infectious diseases EMS providers face, from basic first aid to inserting an IV catheter, focusing on bloodborne pathogens like HBV, HCV, and HIV. You will learn to recognize, prevent, and protect against the spread of these pathogens and viral hemorrhagic fevers through the proper use of PPE and understanding national standards. Additionally, the course covers preventing needlestick injuries, exposure therapies, and the role of EMS in public health initiatives to control infectious outbreaks. (CAPCE CEH Category - Basic/Advanced/Operational).

### **Medical, Ethical, and Legal Issues (1-hour) [CAPCE CEH Category: Operational/Management]**

A guiding principle in emergency medical care is to first do no harm; acting in good faith and following local protocols and standards of care reduces the risk of legal action. This interactive online course addresses the ethical and legal issues that EMS clinicians encounter on the job, emphasizing the importance of awareness for the safety and wellbeing of both patients and providers. Recognizing these issues is crucial to preventing civil and criminal liabilities. This course covers key topics including scope of practice, standards of care, negligence, battery, consent, and documentation, and emphasizes the importance of seeking legal advice as protocols vary by state and county.

### **Patient Refusal (1-hour) [CAPCE CEH Category: Basic]**

Understanding the patient's rights and your legal and ethical responsibilities will help to mitigate any fear you have of being sued if you don't transport a patient. You're unlikely to be sued successfully if you deliver emergency care within your scope of practice, follow your local protocols and state laws, and understand the parameters within which a patient has the right to refuse your services. A key part of your responsibilities, covered in this course, is to properly document the steps taken and the patient refusal.

### **Prehospital Considerations for Diversity, Equity and Inclusion in EMS (1-hour) [CAPCE CEH Category: Basic/Advanced]**

In the field of Emergency Medical Services (EMS), professionals often encounter patients from diverse cultural backgrounds and identities. This course equips EMS clinicians and agencies with the knowledge and strategies needed to provide high-quality care to culturally diverse patients,

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while addressing topics such as implicit bias, systemic racism, and the unique needs of traditionally marginalized groups. Upon completion, participants will be better prepared to deliver equitable and inclusive care in a culturally diverse society.

### **The Human Body Part 1 - Critical Systems (1-hour) [CAPCE CEH Category: Basic]**

This course is the first offering in the two-part series: The Human Body. Both EMTs and paramedics must understand anatomy and physiology to varying degrees. Using accurate medical terminology is an absolute requirement in every verbal or written report. Furthermore, forming an impression on a patient requires an understanding of the body systems and processes that are affected or otherwise impacted by disease or traumatic injury. This series applies anatomy and physiology concepts in a way that EMTs and paramedics should find both insightful and useful. This course reviews the structure, function and common problems of the critical body systems, including anatomy and physiology from a historic perspective, medical terminology that is used to describe basic anatomical landmarks, and the body's critical systems—the circulatory system, respiratory system, and nervous system.

### **The Human Body Part 2 - Other Systems (1-hour) [CAPCE CEH Category: Basic]**

This course is the second offering in the two-part series: The Human Body. Both EMTs and paramedics must understand anatomy and physiology to varying degrees. Using accurate medical terminology is an absolute requirement in every verbal or written report. Furthermore, forming an impression on a patient requires an understanding of the body systems and processes that are affected by disease or traumatic injury. This series applies anatomy and physiology concepts in a way that EMTs and paramedics should find both insightful and useful. Part 1 of the series examined the structure, function, and common problems of the critical body systems, which included the circulatory system, respiratory system, and nervous system. It explored anatomy and physiology from a historic perspective, and addressed the medical terminology used to describe basic anatomical landmarks. Part 2 of the series reviews the structure, function and common problems of the other body systems, which include the musculoskeletal, integumentary, gastrointestinal, genitourinary, and endocrine systems. Medical terminology from Part 1 is reviewed.

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## PREPARATORY - PROVIDER WELLBEING

- Diet & Nutrition
- Functional Approach to Physical Fitness
- Health and Wellness
- Health and Wellness in Public Safety
- Mental Health for Emergency Responders
- Protecting Yourself from Influenza
- Slips, Trips and Falls
- Workplace Stress



### **Diet & Nutrition (1-hour) [CAPCE CEH Category: Operational]**

This course on Diet and Nutrition offers valuable insights for EMS professionals. With a focus on the physical demands of the emergency response role, this course highlights the importance of proper nutrition and exercise to maintain a healthy and effective lifestyle. Participants will gain knowledge about nutrition, weight management, fitness principles, and the relationship between diet, exercise, and chronic conditions. By completing this course, learners will enhance their understanding of the role of diet in overall well-being, enabling them to better care for themselves and, in turn, effectively serve their communities.

### **Functional Approach to Physical Fitness (1-hour) [CAPCE CEH Category: Basic/Advanced]**

A recent study showed that, in one year alone, there were over 65,000 injuries to Fire and EMS personnel while on duty. This interactive online course delves into the critical importance of functional fitness for first responders, highlighting its role in injury prevention amidst the physically demanding nature of emergency response work. By exploring the distinction between functional training and traditional fitness regimens, you will gain insights into how to tailor exercise routines to better prepare for the practical challenges encountered on the job. Through demonstrations of core strengthening, flexibility exercises, and functional fitness techniques tailored to emergency responder tasks, attendees will emerge equipped with the knowledge and tools to enhance their physical preparedness for the rigors of duty, ultimately reducing the risk of line-of-duty injuries and fatalities.

### **Health and Wellness (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Did you know that over 70% of firefighters are overweight or obese? Providing emergency medical care is a physically and emotionally demanding task for first responders and prioritizing self-care and overall wellness is crucial for delivering quality care to patients. This interactive course covers key components of health and wellness including mental health, stress management, nutrition, physical activity, and sleep. Just as first responders continually train to excel in their professions, striving for better health and wellness are essential for the job. Neglecting either aspect can jeopardize lives, making health and wellness best practices essential for both professional and personal well-being.

### **Health and Wellness in Public Safety (1-hour) [CAPCE CEH Category: Basic]**

According to a study conducted by Harvard School of Public Health and Cambridge Health Alliance, law enforcement officers are 30–70 times more likely to be at risk for a sudden cardiac event. In addition, the life spans for first responders are approximately 15 years less than those of other professions. Shift work, stress, poor relaxation techniques, chemical imbalances, and poor diet have all been listed as primary causal factors. It has been suggested that first responders make small efforts to become more educated and aware of their individual health and wellness needs. This course seeks to educate first responders with some terms, techniques, and lifestyle habits that can lead to a more healthy and productive life.

### **Mental Health for Emergency Responders (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Emergency responders work at a high level of uncertainty, a high potential for interpersonal tension, and a high frequency of seeing human tragedy. All of these are stressors that can take a toll on

your mental health. This interactive online course provides a realistic exploration of life as an EMS provider, challenging the common media portrayal of constant heroic and adrenaline-filled events. You will dive into the beliefs and stereotypes surrounding EMS providers that may hinder them from seeking necessary support, along with strategies to change or reframe these beliefs. The course also addresses the signs and symptoms of stress in EMS providers, offering resources and methods to protect mental health and obtain help when needed. By the course's conclusion, you will be equipped to navigate the unique aspects of an EMS career and foster a supportive workplace culture.

### **Protecting Yourself from Influenza (1-hour) [CAPCE CEH Category: Basic]**

This Target Solutions course offering is geared for both the basic and advanced level EMS provider. Occupationally acquired infectious pathogens are an ever-present threat for prehospital providers. Through a better understanding of the varied viral mediums that cause influenza and other upper respiratory infections along with how they are most easily transmitted, the rescuer can more effectively protect themselves. Throughout the lessons that comprise this course, we explore myths and realities surrounding the flu vaccine, how the annual inoculation comes to be, transmission vectors, mortality and morbidity and more. As always, the course provides evidenced-based content and best practices to consider. To maximize your retention and better assure successful completion of this offering, consider the following: Throughout this course, each lesson concludes with multiple study questions that will ultimately prepare you for the comprehensive final quiz that must be passed in order to be awarded a continuing education unit(s).

### **Slips, Trips and Falls (1-hour) [CAPCE CEH Category: Basic]**

Slips, trips and falls can happen in any workplace. But the consequences of emergency response personnel falling on the job can be much greater than those in the rest of the workforce. Slips, trips and falls include any injuries that cause lost work time. Slips, trips and falls may result in trivial injuries to catastrophic injuries. In this course learn common causes, hazards, and injuries. As well as safety techniques and prevention practices for EMTs and firefighters. After successfully completing this course, you will be able to: Define slips, trips and falls, discuss common causes, hazards and injuries, and describe safety techniques and prevention practices.

### **Workplace Stress (1-hour) [CAPCE CEH Category: Operational/Management]**

Stress is a physical and psychological reaction to the increasing demands of life. When your brain perceives a threat, it signals your body to release a burst of hormones to fuel your response. This is called the “fight-or-flight” response. Once the threat is gone, your body should return to a relaxed state. However, the nonstop stress of modern life means that your alarm system rarely shuts off. As an emergency medical care provider, you face a variety of stressful situations in the workplace, such as inconsiderate coworkers, abuse calls, dying kids, forced overtime, and much more. In addition, you must deal compassionately with patients and victims who are experiencing stress. This course highlights some typical sources of stress, as well as methods of dealing with and reducing stress in your daily life. It is impossible to avoid stress completely, so learning to deal with it is necessary for your health and well-being.





## SPECIAL CONSIDERATIONS

- Assessment and Treatment of Sexual Assault Patients
- Assessment, Treatment and Transport of Morbidly Obese Patients
- Bariatric Patients
- Child Abuse: An EMS Professionals Role & Responsibilities
- Interactions with Individuals with Disabilities
- Managing Chronic Care Patients
- Myths and Realities of Drug-Seeking Behavior
- Patient Abuse and Assault
- Patients with Special Challenges
- Response for COVID-19 (PPE, Decon, and Transport)
- Special Needs Patients
- Understanding Autism Spectrum Disorder for First Responders



### **Assessment and Treatment of Sexual Assault Patients (1-hour) [CAPCE CEH Category: Basic]**

This course focuses on preparing EMS workers to effectively respond to incidents of drug-facilitated sexual assault, which can pose numerous challenges for responders. The course covers the incidence, effects, and characteristics of these types of emergencies, as well as patient management procedures and treatment interventions. Through this course, EMS workers will gain cultural competence for victims of sexual assault, and learn how to approach these types of calls with empathy and respect.

### **Assessment, Treatment and Transport of Morbidly Obese Patients (1-hour) [CAPCE CEH Category: Basic/Advanced]**

More than 2 in 5 adults in the US have obesity. This interactive online course delves into the complex issue of obesity, focusing particularly on morbid obesity and its implications for emergency medical services providers. You will learn to define terms like overweight, obese, and severely obese, understand the causes and health consequences of obesity, and explore assessment challenges and treatment strategies specific to obese and severely obese patients. Additionally, the course covers lifting, moving, and extrication complications associated with caring for these patients while emphasizing the importance of respecting their dignity and maintaining the standard of care.

### **Bariatric Patients (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Bariatric Patients course addresses the unique challenges and considerations involved in providing care to bariatric patients in the prehospital setting. With obesity rates on the rise, EMS personnel need to be prepared to respond effectively to incidents involving morbidly obese individuals. This course covers topics such as the challenges posed by obesity, the etiologies of obesity, pharmacokinetics in obese patients, pathophysiological effects and comorbidities of obesity, injury prevention strategies, and special accommodations required to properly manage bariatric patients. By completing this course, participants will gain the knowledge and skills necessary to address the specific needs of bariatric patients and provide appropriate care in these challenging situations.

### **Child Abuse: An EMS Professionals Role & Responsibilities (1-hour) [CAPCE CEH Category: Basic]**

Despite extensive training in various medical emergencies, child abuse recognition is often underemphasized. This interactive online course aims to fill that gap by equipping EMS personnel with the knowledge to identify and respond to child abuse, which is linked to severe long-term health issues. This course serves as a primer for EMS professionals on recognizing, reporting, and addressing child abuse. By understanding child abuse patterns, appropriate responses, and reporting procedures, EMS professionals can play a crucial role in mitigating abuse and its long-term consequences.

### **Interactions with Individuals with Disabilities (1-hour) [CAPCE CEH Category: Basic]**

People with disabilities may move, behave, or speak differently from what first responders may expect. This can result in first responders assuming that the person is intoxicated or uncooperative instead of considering if they may have a disability. This interactive online course will provide you with effective methods of engaging with individuals who have intellectual and/or developmental disabilities during emergency response situations. Addressing various disabilities such as autism spectrum

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disorder, ADHD, Down syndrome, and fetal alcohol spectrum disorder, this course offers insights into recognizing signs, understanding behaviors, and employing specialized approaches for these individuals. You will learn to navigate potential communication barriers, assess situations calmly, and tactically reposition yourself to ensure a non-threatening and appropriate response, enhancing your ability to serve the diverse needs of individuals with disabilities.

### **Managing Chronic Care Patients (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This course provides a general overview for basic and advanced level EMTs and paramedics on the issues and considerations relevant to managing chronic care patients. Topics discussed include the various kinds of medical devices that may be encountered, the specific complications most commonly found in such patients, and the unique assessment and management strategies involved in caring for chronic care patients.

### **Myths and Realities of Drug-Seeking Behavior (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The motivations behind drug-seeking behavior are intricate, arising from an interplay of biological, psychological, and social factors. This interactive online course aims to dispel common myths surrounding drug-seeking behavior through contemporary research, empowering EMS providers to assess and treat patients exhibiting such behavior with compassion and non-judgmental care. In this course, you will gain a comprehensive understanding of substance use disorders and drug-seeking behaviors. Key concepts such as drug dependence, tolerance, and addiction will be defined, and commonly abused medications sought by drug seekers will be explored. By the course's conclusion, you will be well-equipped to navigate challenging encounters and reduce the stigma associated with drug-seeking behavior in the prehospital setting.

### **Patient Abuse and Assault (1-hour) [CAPCE CEH Category: Basic]**

The prevalence of abuse and assault, coupled with the deep physical and psychological impacts of such incidents on victims and their loved ones, make it imperative that emergency responders be familiar with the unique patient care considerations and characteristics inherent in these situations. This course aims to equip paramedics to respond professionally, compassionately, and effectively to incidences of abuse and assault, including partner abuse, elder abuse, child abuse, and sexual assaults involving adults and/or children.

### **Patients with Special Challenges (1-hour) [CAPCE CEH Category: Basic/Advanced]**

When called to the scene of an emergency, you may encounter patients who require special considerations for communication, care, and transport. This course is designed to equip healthcare providers with the knowledge and skills necessary to effectively address the unique challenges presented by patients with various physical, mental, developmental, or culturally diverse needs. You will learn how to assess and manage patients with conditions such as hearing or visual impairments, paraplegia, quadriplegia, mental illnesses, developmental disabilities, and more. This course emphasizes the importance of providing professional, respectful, and inclusive care to all patients, ensuring that their specific needs are met throughout the assessment and treatment process.



### **Response for COVID-19 (PPE, Decon, and Transport) (0.5-hour) [CAPCE CEH Category: N/A]**

As first responders continue to provide vital emergency medical services during the COVID-19 pandemic, they face unprecedented circumstances. EMS personnel must be able to safely handle the rapidly growing number of calls for possible cases of COVID-19 in a variety of settings, making vital decisions quickly, sometimes with limited information and resources. Being prepared to handle calls related to COVID-19 can keep first responders safe, flatten the curve that we have heard so much about, and help to break the chain of infection.

### **Special Needs Patients (1-hour) [CAPCE CEH Category: Basic/Advanced]**

In this presentation, we will introduce you to a number of chronic conditions or challenges which you may face when caring for special needs patients. Additionally, we will review some of the common out-of-hospital care treatment plans and medical equipment you may encounter when responding to this category of patients. Finally, we'll discuss prehospital assessment and treatment strategies which might work well with these complex patients.

### **Understanding Autism Spectrum Disorder for First Responders (1-hour) [CAPCE CEH Category: Basic/Advanced]**

In the US, it is estimated that 1 in 36 children have autism and 1 in 45 adults have autism. This interactive online course is designed to equip first responders with crucial insights into Autism Spectrum Disorder (ASD) to facilitate safer and more effective interactions. The course focuses on identifying ASD traits, understanding associated mental and physical issues that may coexist, and addressing potential difficulties in communication and behavior. It provides tools and approaches to navigate encounters with individuals with ASD in various public safety roles. You will learn how to recognize signs of ASD, approach situations calmly, and tactically reposition yourself to ensure appropriate and non-threatening interactions, ultimately enhancing your ability to assist and support individuals with ASD in emergency situations.

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## SPECIAL CONSIDERATIONS - GERIATRIC

- Geriatric Assessment Challenges
- Geriatric Behavioral Emergencies
- Geriatric Emergencies



### **Geriatric Assessment Challenges (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Every EMS encounter begins with an assessment, and certain populations, such as geriatrics, require specific strategies due to underlying challenges. While it is important to consider potential challenges like hearing impairments and chronic health conditions, assumptions based solely on age can lead to inadequate assessments and poor patient outcomes. This interactive online course is designed to address the physical, environmental, and mental health challenges that often complicate the assessment of geriatric patients, along with techniques and communication strategies to improve interactions and outcomes. By discussing the challenges and techniques of geriatric assessment, this course aims to enhance the skills necessary for more effective and positive patient encounters. (CAPCE CEH Category - Basic/Advanced)

### **Geriatric Behavioral Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Understanding geriatric behavioral emergencies is crucial for EMS responders to ensure that these incidents are not dismissed as normal age-related changes, leading to a lack of essential care. This interactive online course equips responders with the knowledge to recognize and properly treat behavioral emergencies in elderly patients. By covering the causes of behavioral changes, differentiating between disorders, and discussing medical and legal considerations, the course prepares responders to manage these emergencies effectively. Techniques for assessing, calming, and treating geriatric patients with behavioral issues, including handling potentially suicidal or violent situations, are also emphasized.

### **Geriatric Emergencies (1-hour) [CAPCE CEH Category: Basic/Advanced]**

It is estimated that by 2030, geriatric patients will comprise 22% of the population and account for 70% of ambulance transports. As the geriatric population continues to expand, understanding the nuances and subtleties of geriatric care is crucial for achieving successful patient outcomes. The interactive online course is designed to equip EMS personnel with the knowledge and skills required to provide effective care to the aging population. The course delves into the physiological and psychological changes that occur with aging and how they affect the assessment and treatment of geriatric patients. You will learn about the unique challenges of caring for the elderly, such as the impact of aging on various body systems, complications that can arise during assessment, and management techniques tailored to older patients with both medical conditions and traumatic injuries.

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## TRAUMA

- Abdominal Trauma
- Advanced Cervical Spinal Injuries: Special Considerations for Athletics
- Amputation Injuries
- Assessment and Treatment of Foot Injuries
- Assessment and Treatment of Submersion Injuries
- Bleeding and Shock
- Burn Management
- Central Nervous System (CNS) Injuries
- Femur Fractures
- Gunshot Wounds and Bomb Blast Injuries
- Hip and Pelvic Injuries
- Injuries and Infections of the Eye
- Kinematics of Trauma
- Musculoskeletal Injuries
- Spinal Cord Injuries
- Thoracic Emergencies
- Trauma Assessment for Head and Neck Injuries
- Traumatic Brain Injuries



### **Abdominal Trauma (1-hour) [CAPCE CEH Category: Basic]**

Abdominal trauma patients make up a significant volume of emergencies presented to the prehospital healthcare provider and are associated with significantly high morbidity and mortality when delays in surgical interventions arise. The goal of this course is to increase knowledge and awareness, as well as to present concepts and care for all Basic Life Support (BLS) and Advanced Life Support (ALS) personnel. This course provides an ideal refresher for trained individuals currently working in the field of prehospital care and in location-based settings. The details provided in this course revolve around the abdominal trauma patient population and incidents, management, and care of those conditions and situations.

### **Advanced Cervical Spinal Injuries: Special Considerations for Athletics (1-hour) [CAPCE CEH Category: Advanced]**

After successfully completing this course, you will be able to: Review C-spine anatomy, discuss mechanisms of C-spine injury, review signs and symptoms of C-spine injury, and explore guidelines for injury evaluation and treatment, including life threats.

### **Amputation Injuries (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Every year over 30,000 traumatic amputations take place, and 75% of pediatric amputations are due to traumatic accidents. In traumatic amputations, the potential for success in reattaching the amputated body part is highly contingent upon the quality of the prehospital care provided. For this reason, EMS providers play a significant role in the survival and recovery of patients who experience traumatic amputations. This course provides a general overview of amputation injuries and discusses assessment strategies and patient management considerations. The course also surveys the various types of amputation injuries that may be encountered, the pathophysiology of such injuries and strategies for hemorrhage control and for providing the optimal chance for survival and for successful reattachment.

### **Assessment and Treatment of Foot Injuries (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Assessment and Treatment of Foot Injuries course provides essential knowledge for clinicians and responders to effectively evaluate and treat foot injuries. With a focus on maintaining mobility and overall health, this course emphasizes the significance of proper foot care. Participants will gain insights into foot anatomy, injury patterns, risk factors, and evidence-based treatment approaches, ultimately enabling them to better address foot injuries and promote overall well-being.

### **Assessment and Treatment of Submersion Injuries (1-hour) [CAPCE CEH Category: Basic/Advanced]**

This interactive online course provides essential knowledge for pre-hospital care personnel on the assessment and treatment of submersion injuries, which are a major cause of accidental death globally, especially in children. You will learn the latest science and evidence-based guidelines, following current NHTSA standards, to reduce mortality and morbidity associated with drowning incidents. The course covers definitions and classifications of drowning, the pathophysiology of drowning and submersion injuries, and modern prevention methods. By the end of this course, you will be able to identify factors leading to drowning, apply effective treatment and prevention strategies, and mitigate personal risk during rescue operations. (CAPCE CEH Category Basic/Advanced)

### **Bleeding and Shock (1-hour) [CAPCE CEH Category: Basic]**

Time is critical when responding to patients suffering from blood loss or shock. This course focuses on the importance of the circulatory system in relation to blood loss and shock. You will learn how to identify and treat various forms of external and internal bleeding, as well as recognize the signs and symptoms of shock. The course covers the structures and functions of the circulatory system, how to take a blood pressure measurement, and the steps for controlling bleeding. Additionally, you will gain an understanding of the different forms of shock, the emergency medical care required, and the distinction between Basic Life Support (BLS) and Advanced Life Support (ALS) interventions.

### **Burn Management (1-hour) [CAPCE CEH Category: Basic]**

Nearly half a million severe burn injuries are treated each year at hospitals throughout the United States. Burn injuries are a form of trauma that can be very distracting to you as an EMS provider because of the look and smell of the burn. These injuries have high mortality rates and can result in lengthy rehabilitation, cosmetic disfigurement, psychosocial problems, and permanent physical disabilities for the patient. When providing emergency care for these types of injuries, it is vital to focus on the treatment of life-threatening injuries, if they are present, even though the burn may consume your attention. Knowing the classifications and characteristics of burns and how to identify the severity will aid in your medical care of the burns.

### **Central Nervous System (CNS) Injuries (1-hour) [CAPCE CEH Category: Basic]**

The Central Nervous System (CNS) Injuries course offers a comprehensive understanding of brain, skull, and spinal cord injuries, which are critical concerns in emergency medical services. With insights into the anatomy of the spine and the central nervous system, participants will learn to assess and provide medical care for patients with CNS injuries effectively. Special emphasis is placed on minimizing the risk of further injury by mastering spinal-motion restriction techniques using short and long backboards. This course is essential for EMS providers, helping them navigate the complexities of CNS injury assessment and care while adhering to the latest EMS education standards.

### **Femur Fractures (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Femur Fractures course provides a comprehensive understanding of femur fractures, focusing on the longest and strongest bone in the body. Participants will learn about the types of femoral fractures, their assessment findings, and the critical prehospital management techniques required for these injuries. Special considerations and potential complications following a femur fracture are also discussed, equipping healthcare providers with the knowledge and skills needed to effectively assess, treat, and manage femur fracture emergencies.

### **Gunshot Wounds and Bomb Blast Injuries (2-hour) [CAPCE CEH Category: Basic/Advanced]**

EMS providers at all levels are often faced with the challenge of responding to scenes of targeted violence and treating patients with gunshot wounds or blast injuries. Penetrating trauma caused by firearms presents a unique challenge for EMS personnel due to potential severity of gunshot injuries to the human body, complex implications in patient care, and the unpredictability of the scene during and after a violent incident has taken place. These dynamic and often volatile scenes create new and unique challenges for the responder. This course will help prepare you for this response, by providing insight into the unique attributes of a bomb blast situation, and the injuries you might encounter.

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### **Hip and Pelvic Injuries (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The Hip and Pelvic Injuries course equips emergency care providers with essential assessment tools and contemporary treatment strategies for effectively managing hip and pelvic injuries. With a focus on recognizing key anatomical features, understanding injury mechanisms, and identifying risk factors, participants will gain the skills to assess and treat these injuries more effectively. Given the significant impact of hip and pelvic injuries, particularly among the elderly and younger population, this course emphasizes early recognition and evidence-based treatment, preparing healthcare providers to address these challenges in the field.

### **Injuries and Infections of the Eye (1-hour) [CAPCE CEH Category: Basic/Advanced]**

The human eye is a delicate and crucial organ, and understanding its anatomy, terminology, common injuries, and infections is vital to provide fast, appropriate care. Injuries and infections can lead to extreme pain and lifelong vision problems, making prompt and proper care a priority. This interactive online course provides essential knowledge for EMS responders to accurately assess and treat patients with eye injuries and infections. This course covers the anatomy of the eye, various eye injuries, common infections, assessment techniques, and management of patients with injuries, foreign bodies, burns, or blunt trauma to the eye. By the end of the course, you will be well-prepared to handle eye-related emergencies with the care and attention they require.

### **Kinematics of Trauma (1-hour) [CAPCE CEH Category: Basic]**

Traumatic injury is the leading cause of death of Americans, especially in persons under the age of 45, causing 214,000 deaths every year. This data equates to an individual dying every three minutes from a traumatic etiology. Trauma, in all its forms, led to 2.8 million hospitalizations, and nearly 28 million emergency department visits in the most recent year, as studied by the Centers for Disease Prevention and Control (CDC).

### **Musculoskeletal Injuries (1-hour) [CAPCE CEH Category: Basic/Advanced]**

Musculoskeletal injuries are one of the most common types of injuries encountered by EMS professionals. These injuries are largely not life-threatening in nature; however, there may be some instances where the injury can be life-threatening. Prompt identification and treatment of musculoskeletal injuries are crucial in reducing pain, preventing further injury, and minimizing permanent damage. This course covers musculoskeletal injuries as they apply to fractures, strains, sprains, and dislocations. It also covers specific types of injuries, patient treatment, and splinting procedures.

### **Spinal Cord Injuries (2-hour) [CAPCE CEH Category: Basic/Advanced]**

The spinal column provides key structural support to the head and pelvis. In addition, the spinal cord provides for communication between the brain and muscles through a rich network of ascending and descending nerve pathways. Because of the vital functions it provides, any injury to the spinal cord has the potential to cause serious short- and long-term adverse effects on patient health and well-being. However, spinal cord injuries are not always easy to assess or confirm in the pre-hospital environment. Also, the presence of distracting injuries can cause the spinal cord to be overlooked. This course furnishes EMS providers with an overview of the anatomy and physiology of spinal cord structures, and takes an in depth look at assessing and managing spinal injuries. An understanding of spinal cord injuries, coupled with proper handling, is crucial to the prevention of long-term injury.

### **Thoracic Emergencies (1-hour) [CAPCE CEH Category: Basic]**

Understanding thoracic injuries is crucial for EMS professionals due to the chest's vital organs and the potential for life-threatening conditions. This interactive online course delves into the mechanisms, signs, and symptoms of both blunt and penetrating thoracic injuries, emphasizing their high fatality rates and the importance of timely, effective treatment. You will learn to identify and manage common and severe chest injuries, improving their ability to deliver the traumatized patient to definitive care.

### **Trauma Assessment for Head and Neck Injuries (1-hour) [CAPCE CEH Category: Advanced]**

This course covers how to recognize and treat head, facial, and neck trauma using a rapid trauma assessment approach. The course reviews the identification of various injuries that may occur in a traumatic event, starting from the top of the head to the neck. Students will learn when and how to perform a focused physical examination on a patient after completing a rapid trauma assessment. By the end of the course, students will be able to recognize different head, neck, and facial injuries and identify the necessary treatments for each injury.

### **Traumatic Brain Injuries (1-hour) [CAPCE CEH Category: Advanced]**

This course focuses on educating first responders about head, brain, and neck injuries that may occur in traumatic events such as falls and sports injuries. The course covers the identification and treatment of these injuries, as well as potential complications and shocks that may occur. The course also emphasizes the importance of recognizing differences in populations when dealing with head/brain and neck injuries. By the end of the course, the learner will be able to identify different types of injuries and provide appropriate treatment while recognizing and managing potential complications.

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## STATE SPECIFIC

- HIV/AIDS Awareness (Florida)
- Jurisprudence (Texas)





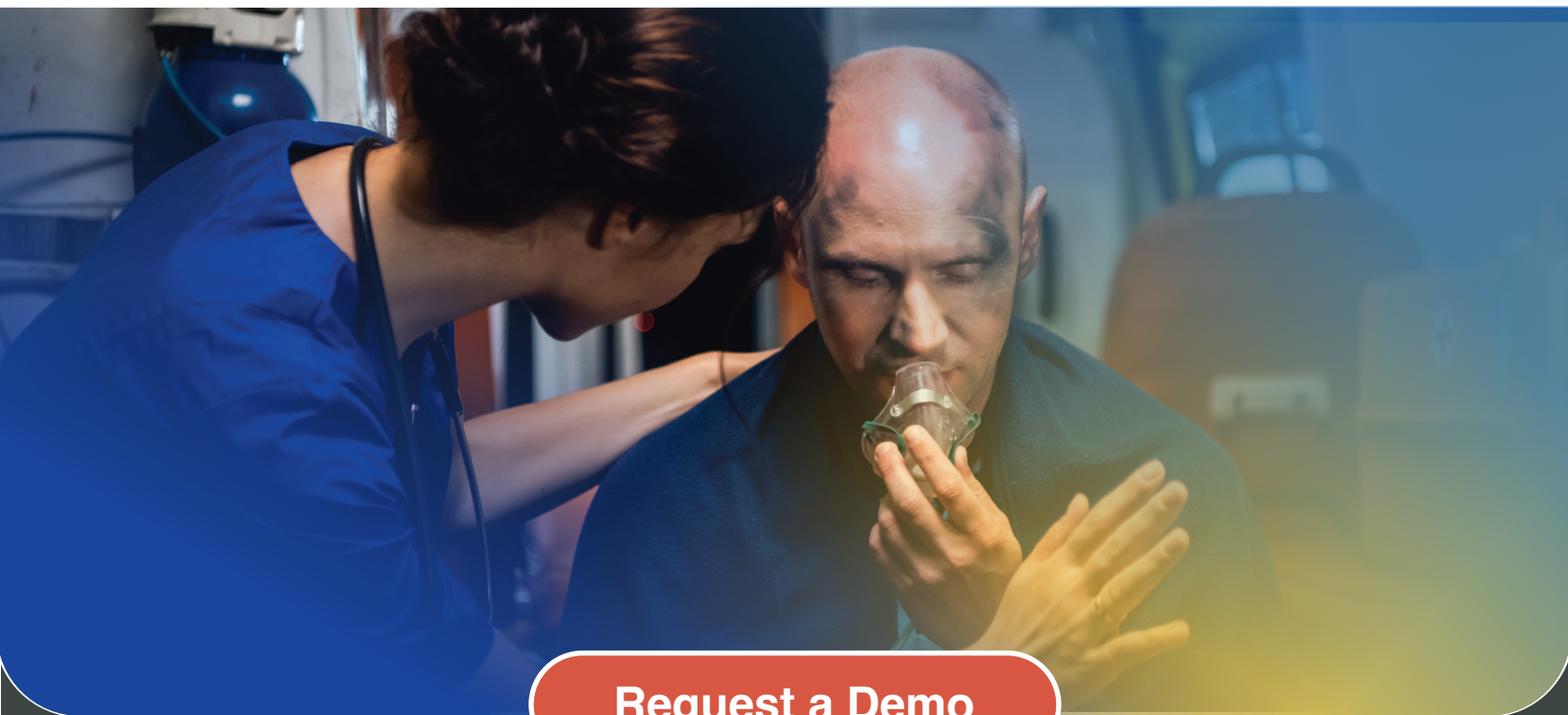
## **HIV/AIDS Awareness (Florida) (2-hour) [CAPCE CEH Category: N/A]**

When providing emergency medical care, there is a strong possibility that you will contact blood and other bodily fluids. Exposure to such fluids or materials could result in transmission of pathogens which can lead to disease or death. One such potentially infectious pathogen includes the Human Immunodeficiency Virus (HIV), the virus that causes AIDS. The AIDS epidemic continues to be a serious public health problem with profound consequences for our society. Between 650,000 and 900,000 people in the United States have been infected with HIV, and the disease continues to spread. There is no vaccine or cure for this disease. Now, more than ever before, all our communities face the challenge of working together to stop the epidemic. This course highlights how HIV is spread and what to do if you are exposed.

## **Jurisprudence (Texas) (2-hour) [CAPCE CEH Category: N/A]**

All EMS providers in Texas are required to have a familiarity with the Health & Safety Code, Department of State Health Services rules, and other applicable laws that impact EMS activities in the state. This course will familiarize the learner with the essential topics for Texas EMS Jurisprudence. Some of the main topics that will be reviewed include rules and laws, licensing and certification, disciplinary actions, and continuing education.

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