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Courses for ALS Providers	Courses for BLS Providers
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Courses for ALS Providers
(EMT-Paramedics, Paramedics, EMT-Intermediates, Advanced EMTs)
*Indicates courses approved by UMBC for CCEMTP Continuing Education Credits.

***A150 - 12-Lead ECG Interpretation Part 1 and Part 2 (2 CE Hours)**

Part 1

1. Describe the flow of electrical impulses through the heart
2. Discuss how an ECG tracing is organized
3. Learn signs of ischemia and myocardial infarction that are detectable with an ECG

Part 2

4. Introduce other conditions that are detectable with an ECG
5. Practice reading ECGs.

A151 - Diver Down: SCUBA Injury and Illness (1 CE Hour)

1. Understand how gas laws impact a SCUBA diver under normal diving conditions and during an emergency.
2. Review the signs and symptoms of SCUBA related medical emergencies that EMS may encounter.
3. Explain the prehospital management of some of the more serious SCUBA related medical emergencies.

A152 - Pediatric Ingestions (1 CE Hour)

1. Using a pediatric assessment tool, identify the physiological status of the child
2. Identify common medications and their symptoms of ingestion
3. Discuss treatment priorities in the child poisoned as the result of medication ingestions.

***A153 - Automatic Transport Ventilators in EMS (1 CE Hour)**

1. Indications and contraindications for using an Automatic Transport Ventilator in EMS.
2. Common procedure for use of an Automatic Transport Ventilator by EMS providers.
3. Knowing special considerations for use of an Automatic Transport Ventilator by EMS providers.

A154 – Pediatric Resuscitation (1 CE Hour)

1. Using a pediatric assessment tool, identify the physiological status of the child.

2. Identify common medications and their symptoms if ingestion.
3. Discuss treatment priorities in the child poisoned as the result of medication indigestions.

A200 - Emergency Care for Lightning Strike Victims (1 CE Hour)

1. Describe how lightning can strike a person and cause injuries.
2. Dispel lightning myths that may affect patient care or put rescuers at risk.
3. List types of mild, moderate, and severe injuries from a lightning strike.
4. Identify proper treatments, including early CPR, for lightning strike victims.
5. List specific strategies to prevent rescuers from becoming victims of a lightning strike.

A201 - Unstable Pelvic Fractures and Emergency Stabilization (1 CE Hour)

1. Identify the major boney structures of the Pelvis, understand its primary functions, and understand how a 2. Pelvic Fracture can effect nearby organs and blood vessels.
2. Describe mechanisms of injury and two types of pelvic fractures.
3. Use scene size-up clues, initial assessment findings, and a rapid trauma exam to assess pelvic fracture instability.
4. Describe goals, indications, and four methods to reduce and stabilize a pelvis fracture.

A202 - Disease Conditions of Chronic Alcoholism (1 CE Hour)

1. Define and understand alcohol abuse and dependence and its impacts on individuals and society.
2. Describe the pathophysiology of alcohol absorption, toxicity, and elimination.
3. Identify signs and symptoms of disease conditions of chronic alcoholic patients.
4. Treat disease conditions of chronic alcoholic patients.

***A204 - Unusual Resuscitations (1 CE Hour)**

1. Identify unusual resuscitation situations resulting from environmental emergencies.
2. Explain the underlying pathophysiology that complicates respiratory and cardiac resuscitation from an environmental emergency.
3. Describe treatment for respiratory and cardiac arrest resulting from an environmental emergency.
4. List reasons to not begin CPR.

A205 - Nose Bleeds, Breaks, and Obstructions (1 CE Hour)

1. Identify the major structures of the nose.
2. Discuss the functions of the nose.
3. Identify the pathophysiology of nose bleeds, breaks, and foreign bodies.
4. Apply treatments for nose bleeds, breaks, and foreign bodies.

***A207 - Pain Assessment (1 CE Hour)**

1. To define pain as a personal and subjective experience.
2. To describe pain classification methods.
3. To articulate the body's process of communicating tissue damage to the brain.
4. To methodically assess every patients pain.
5. To overcome challenging pain assessment situations.

***A208 - Pain Management (1 CE Hour)**

1. To understand barriers to under treatment of pain.
2. To assess patient pain before and after treatment.
3. To lessen pain with non-pharmacological and pharmacological pain treatments methods.
4. To identify components of a prehospital pain management protocol.

A210 – Drug Seeking Behavior – (1 CE Hour)

1. To define drug dependence, drug tolerance, and drug addiction
2. To identify the desired medications of drug seekers
3. To explain myths and realities of drug seeking behavior
4. To understand prehospital assessment and treatment of drug seeking behavior

A211 – Fetal Trauma from MVA – (1 CE Hour)

1. To review pregnancy anatomy and physiology*
2. To describe fetal trauma injuries*
3. To assess and treat maternal trauma*
4. To learn components of fetal assessment*
5. To review strategies to prevent fetal trauma from motor vehicle collisions

A212 - Complementary and Alternative Medicine (1 CE Hour)

1. To Define complementary and alternative medicine.
2. To Describe common CAM treatments.
3. To Understand impact of CAM on EMS.
4. To Assess and document CAM use.
5. To explore the risks and adverse effects of some CAM treatments and supplements.

***A213 - Assessment, Treatment, and Transport of Morbidly Obese Patients (1 CE Hour)**

1. Define overweight, obese, and morbidly obese.
2. Explore the health consequences of obesity and morbid obesity.
3. Understand assessment challenges and treatment strategies for obese and morbidly obese patients.
4. Explain lifting, moving, and extrication complications for obese and morbidly obese patients.

A214 - Assessment and Treatment of Ankle Injuries (1 CE Hour)

1. Discuss the anatomy and function of the ankle joint and the foot.
2. Review the kinematics and mechanisms of injury for the ankle.
3. Learn to perform a thorough examination of the ankle.
4. Apply appropriate treatments for an injured ankle.

A215 - Avalanche! Rescue, Injury, and Treatment (1 CE Hour)

1. Understand how an avalanche occurs.
2. Identify avalanche injury patterns.
3. Review basic avalanche rescue principals for rapid location and extrication.
4. Explain assessment and treatment priorities for single or multiple patients.

A216 – Low Back Pain (1 CE Hour)

1. Review important spinal column anatomy.
2. Discuss the causes of low back pain.
3. Explain prehospital assessment of low back pain.
4. Provide prehospital treatment for low back pain.

A217 - Animal Bite Assessment and Treatment (1 CE Hour)

1. Identify types and causes of animal bites.
2. Predict adult and pediatric injury patterns from animal bites.
3. Explain animal bite assessment guidelines.
4. Review animal bite treatment strategies.
5. Discuss animal bite complications.

A218 - Assessment and Treatment of Submersion Injuries (1 CE Hour)

1. Discuss submersion injury statistics.
2. Explain causes of submersion injuries.
3. Understand submersion injury patterns.
4. Explore rescue and extrication considerations for submersion injury patients.
5. Describe assessment and treatment of a submersion injury patient.

A219 – Assessment and Treatment of Heat Emergencies (1CE Hour)

1. Review the physiology of thermoregulation
2. Explore causes of heat emergencies
3. Identify patients at increased risk of heat emergencies
4. Differentiate types of heat emergencies
5. Understand techniques to assess and treat heat emergencies

***A220 Pediatric Patient Assessment: Part 1 (1 CE Hour)**

1. Review pediatric patient traits
2. Explore relevant pediatric anatomy and physiology
3. Discuss causes of pediatric injury and death

***A221 Pediatric Patient Assessment: Part 2 (1 CE Hour)**

1. Discuss pediatric patient assessment techniques
2. Explore principles for immobilizing pediatric patients
3. Explain issues in pediatric patient transport

***A222 Pediatric Fluid Resuscitation and Airway Management (1 CE Hour)**

1. Explore causes of fluid depletion in pediatric patients
2. Explain fluid resuscitation methods
3. Discuss common causes of respiratory system compromise
4. Review pediatric airway management techniques

A223 Hip Fracture Assessment and Treatment (1 CE Hour)

1. Review hip anatomy and physiology
2. Explore causes of a hip fracture
3. Discuss assessment of a hip fracture
4. Explain hip fracture treatments
5. Encourage EMS participation in elderly fall prevention programs

***A224 - Methamphetamine Use and Hazards for EMS (1 CE Hour)**

1. Review the effects of methamphetamine use
2. Identify the extent of methamphetamine use in the United States
3. Discuss scene safety hazards of clandestine drug labs
4. Explore assessment and treatment of meth users
5. Explain special considerations for pediatric patients found at clandestine drug labs

A225 - Recognition and Treatment of Foot Injuries (1 CE Hour)

1. Identify the structural anatomy of the foot
2. Understand the factors that increase the risk for foot injury
3. Explore how the mechanism of injury predicts foot injury patterns
4. Explain a detailed foot exam
5. Discuss general and specific treatments for foot injuries

***A226 - Recognition and Management of Over-the-Counter Drug Overdoses (1 CE Hour)**

1. Understand which groups of people are likely to overdose on OTC's and what factors enhance drug actions
2. Recognize the symptoms of specific overdoses and anticipate illness patterns
3. Explain the importance of a thorough patient assessment
4. Identify proper and aggressive treatments for overdoses

A227 - Management of Cervical Spine Injuries in Athletics Part 1 (1 CE Hour)

1. Review C-spine anatomy
2. Discuss mechanisms of C-spine injury
3. Review signs and symptoms of C-spine injury
4. Explore injury evaluation and treatment, including life threats

A228 - Management of Cervical Spine Injuries in Athletics Part 2 (1 CE Hour)

1. Explore recommendations for treatment and transport of the c-spine injured athlete
2. Describe tools and techniques for helmet facemask removal
3. Discuss proper technique for equipment removal and preparation for transport

***A229 - Sepsis (1 CE Hour)**

1. To understand some basic sepsis terms, including the definition of what sepsis is and what it is not.
2. To recognize the demographics of those most at risk for sepsis and sepsis mortality.
3. To explain the pathology of an infection as it affects the body.
4. To understand the importance of and how to prevent infection in the prehospital setting.
5. To use a thorough assessment to recognize sepsis and provide aggressive management.

***A233 - Basic 12-Lead Electrocardiogram Operation and Interpretation (1 CE Hour)**

1. Understand basic heart anatomy.
2. Define the process leading to Acute Coronary Syndrome.
3. Be able to attach the 12-lead EKG to patient and record.
4. Trouble shoot acquisition problems.
5. Introduce interpretation and treatment techniques.

***A234 - Demystifying the Central Line (1 CE Hour)**

1. Explain the various reasons patients have a central line and discuss where central lines are placed
2. Recognize the features of different types of central lines
3. Explain complications of insertion and use of central lines
4. Explain the methods to access central lines

A235 - Mass Casualty Incidents (1 CE Hour)

1. Discuss EMS roles in MCI response.
2. Explain Simple Triage and Rapid Treatment (START).
3. Explore MCI treatment and transport considerations.
4. Practice triage and MCI response skills.

A236 - Medical Staffing at Large Events (1 CE Hour)

1. Describe the challenges of providing medical coverage at a large sporting event.
2. Discuss pre-planning considerations for a large sporting event.
3. Explain communication principles for a large sporting event.
4. Discuss race day logistics.
5. Describe the medical staffing, triage, and treatment process.

***A237 – Clinical Decision Making (1 CE Hour)**

1. Identify factors that influence medical care in the pre-hospital environment.
2. Define the components, stages and sequences of the critical thinking process.
3. Describe factors that have positive and negative effects on decision making.
4. Summarize the “six Rs” of effective clinical decision making.
5. Explore several situations that require clinical decision making.

***A239 – Emergency Childbirth (1 CE Hour)**

1. Review relevant anatomy and physiology.
2. Discuss assessment and care for the obstetric patient with impending delivery.
3. Explain assessment and care to the newborn infant.
4. Review care to the mother immediately following the delivery of a newborn.

***A240 – Obstetric Complications (1 CE Hour)**

1. Review the anatomic structures and physiology of the reproductive system.
2. Discuss assessment of the obstetric patient.
3. Review obstetric patient treatment.
4. Describe pregnancy and delivery complications.
5. Review the anatomic structures and physiology of the reproductive system.

***A241 – Abdominal Emergencies (1 CE Hour)**

1. Review abdominal cavity anatomy.
2. Learn to assess the patient with an abdominal complaint.
3. Discuss general abdominal emergency treatment.
4. Review abdominal emergency cases.

A242 – Avian Influenza (1 CE Hour)

1. Define Avian Influenza.
2. Discuss transmission of Avian Influenza.
3. Describe what EMS providers can do to be prepared.

A243 – Allergic Reaction Management (1 CE Hour)

1. Discuss the causes and physiology of allergic reactions and anaphylaxis.
2. Recognize the signs and symptoms of a severe allergic reaction.
3. Understand treatments for patients suffering a severe allergic reaction.

“Really enjoyed the lecture. It was at the advanced level that I expect for critical care

***A244 – Renal Failure (1 CE Hour)**

1. Review kidney anatomy and physiology.
2. Define renal failure and various types of renal disease.
3. Discuss common medical conditions that result from renal failure.
4. Overview types of dialysis.
5. Explore key assessment and management principles for a renal failure patient.

A245 – Patient Care Report Essentials (1 CE Hour)

1. Discuss reasons for high quality documentation.
2. Explain steps to improve the quality of patient care reports.

A246 – Ethics for the EMS Provider (1 CE Hour)

1. Review ethics terminology.
2. Describe personal and professional codes of ethics.
3. Describe ethical dilemmas and steps that can be used to solve them.
4. Discuss ethical issues that face EMS providers.

A247 – Asystole and PEA: Treating the Non-shockable Rhythms (1 CE Hour)

1. List situations when no possibility of life exists and a resuscitation attempt is unnecessary.
2. Explain likely causes of asystole and pulseless electrical activity.
3. Describe assessment of asystole and pulseless electrical activity.
4. Describe treatments for asystole and pulseless electrical activity.
5. Describe the criteria for terminating resuscitative efforts and tips for talking to the patient's family.

***A248 – Altitude Illness (1 CE Hour)**

1. Describe the pathophysiology of altitude illness.
2. Assess the presence and the severity of altitude illness in different body systems.
3. Describe treatment to and reverse the adverse effects of altitude.
4. Determine when ALS intervention is required, and for ALS providers, implement pharmacological interventions.

A249 – Foodborne Illness (1 CE Hour)

1. Define foodborne illness.
2. Discuss the causes and symptoms of foodborne illness.
3. Explore the various foodborne illness agents.
4. Review prevention, assessment and treatment of foodborne illness.

***A250 – Asthma Part 1 (1 CE Hour)**

1. Identify the epidemiology, anatomy, and pathophysiology associated with asthma.
2. Explore assessment findings associated with asthma attacks.

***A251 – Asthma Part 2 (1 CE Hour)**

1. Discuss ALS and BLS treatment strategies for asthma attacks.

***A253 – Kinematics of Trauma (1 CE Hour)**

1. Review the three mechanisms of injury.
2. Describe the three phases of events which contribute to traumatic injuries.
3. Describe the laws of energy and motion and their relationship to traumatic injuries.

A254 – Depression (1 CE Hour)

1. Define depression
2. Discuss the causes and symptoms of depression
3. Explore the major types of depression
4. Review assessment and treatment principles
5. Discuss prevention techniques for emergency response personnel

***A255 – Airway Management (1 CE Hour)**

1. Describe airway structures and function
2. List important differences in pediatric airway anatomy
3. Explore basic airway management techniques
4. Describe delivery of ventilations and supplemental oxygen

A258 – Emergency Treatment of V-Fib and Pulseless V-Tach (1 CE Hour)

1. Describe the causes of ventricular tachycardia and ventricular fibrillation
2. Identify the physiology of ventricular tachycardia and ventricular fibrillation
3. Review the assessment of ventricular tachycardia and ventricular fibrillation
4. Explain the treatment of pulseless ventricular tachycardia and ventricular fibrillation

A259 – Emergency Assessment and Management of V-Tach with Pulses (1 CE Hour)

1. Discuss the causes of ventricular tachycardia with pulses
2. Review the methods to assess ventricular tachycardia
3. Provide judgment criteria to distinguish between stable and unstable ventricular tachycardia
4. Explain the treatment of both stable and unstable ventricular tachycardia

***A260 – Nausea and Vomiting Management (1 CE Hour)**

1. Discuss the anatomy and physiology related to vomiting
2. Explore causes of nausea and vomiting
3. Describe assessment of patients suffering from persistent vomiting
4. Explain management of patients suffering from persistent vomiting

***A261 – Tricyclic Antidepressant Overdose (1 CE Hour)**

1. Describe the indications for T-C-A medications
2. Explore the pharmacology of T-C-A medications
3. Discuss assessment and treatment of T-C-A overdose patients

***A262 – Calcium Channel Blocker Overdose (1 CE Hour)**

1. Explain the effects and uses of calcium channel blocker medications
2. Discuss calcium channel blocker overdose signs and symptoms
3. Review assessment components for a suspected calcium channel blocker overdose
4. Describe treatment for calcium channel blocker overdose

***A263 – Methicillin Resistant Staphylococcus Aureus – MRSA (1 CE Hour)**

1. Define MRSA
2. Discuss the causes and symptoms of MRSA
3. Discuss prevention techniques for emergency response personnel

***A264 – Smallpox (1 CE Hour)**

1. Define smallpox
2. Discuss the causes and symptoms of smallpox
3. Discuss prevention, preparation and treatment principles for emergency service personnel

***A266 – Diabetic Ketoacidosis - (1 CE Hour)**

1. Describe the pathophysiology of diabetic ketoacidosis and how it differs from normal blood sugar metabolism
2. Discuss the signs and symptoms of DKA
3. Review assessment strategies for a patient with DKA
4. Explore treatment options for a patient with DKA

***A268 – Diabetic Emergencies Part 1 - (1 CE Hour)**

1. Describe the normal relationship between insulin, glucagon, and glucose levels in the blood
2. Discuss the pathophysiology of diabetes mellitus
3. Explore types of diabetic emergencies

***A269 – Diabetic Emergencies Part 2 - (1 CE Hour)**

1. Review the clinical significance of assessment findings for a patient with a diabetic emergency
2. Introduce treatment options for diabetic emergencies

***A271 – Shock and Shock Management – (1 CE Hour)**

1. Describe relevant anatomy and physiology of the cardiovascular system.
2. Explain various stages of shock.
3. Explore assessment findings associated with shock.
4. Discuss the treatment plan for shock.
5. Introduce the concept of an acute stress reaction.

***A274 – Geriatric Assessment Challenges – (1 CE Hour)**

1. Review the demographics of the geriatric population.
2. Identify physical factors that complicate the assessment of a geriatric patient.
3. Identify psychosocial and emotional issues that may complicate the assessment of a geriatric patient.
4. Employ tools to conduct efficient interview of geriatric patients.

***A275 Traumatic Brain Injury – (1 CE Hour)**

1. Explore brain anatomy and TBI pathophysiology.
2. Determine the presence or absence of a TBI.
3. Assess the likelihood of developing Elevated ICP.
4. Recognize Elevated ICP in its early stages.
5. Describe treatment of a patient with a TBI.
6. Describe the treatment of a patient with Elevated ICP.

A276 Cyanide Poisoning – (1 CE Hour)

1. Overview the chemical cyanide and its various uses
2. Review how cyanide enters the body and the body systems affected
3. Identify specific signs and symptoms of cyanide exposure or poisoning
4. Discuss assessment and treatment strategies that are available to pre-hospital providers

***A277 Ecstasy Abuse Management – (1 CE Hour)**

1. Discuss the history, common names, and pharmacology of ecstasy ingestion
2. Recognize the signs and symptoms related to ecstasy abuse
3. Develop a treatment plan for patients suffering from the effects of an ecstasy ingestion

A278 General Science – (1 CE Hour)

1. Discuss matter, states of matter, atoms, elements and the different ways they combine to form molecules and compounds.
2. Define chemical reaction and distinguish between the two major types important for studying physiology.
3. Describe factors that affect chemical reaction rates.

***A279 Special K – (1 CE Hour)**

1. Discuss the history, common names, and pharmacology of ketamine ingestion.
2. Recognize the signs and symptoms related to ketamine abuse.
3. Develop a treatment plan for patients suffering from the effects of ketamine ingestion.

A280 Snowmobile Trauma – (1 CE Hour)

1. Review the statistics associated with snowmobile crashes
2. Discuss the importance of EMT safety in snowmobile crash rescues
3. Understand common mechanisms of injury in snowmobile traumas
4. Learn assessment points specific to snowmobile injuries
5. Review management techniques for snowmobile trauma

***A281 Pharmacology and Drug Administration – (1 CE Hour)**

1. Review basic pharmacodynamics and pharmacokinetics
2. Explore essentials of drug administration
3. Discuss the indications and use of specific medications

A282 Suicide – Deliberate Death – (1 CE Hour)

1. Define suicide
2. Describe at risk populations
3. Overview warning signs
4. Review assessment and treatment principles
5. Describe preventative measures for emergency response personnel

***A283 Seizure Management – (1 CE Hour)**

1. Explore causes of seizures
2. Describe types of seizures and what happens to the body during different types of seizures
3. Review seizure assessment and treatment principles

A284 Musculoskeletal Injuries Part 1 – (1 CE Hour)

1. Review anatomy and physiology of muscles, bones, and joints
2. Describe types and causes of bone and joint injuries
3. Review specific musculoskeletal injuries

A285 Musculoskeletal Injuries Part 2 – (1 CE Hour)

1. Describe musculoskeletal injury assessment and treatment principles
2. Explain general splinting techniques
3. Define special considerations when splinting
4. Review pain management and reassessment principles

A286 Burn Injury Assessment and Management – (1 CE Hour)

1. Define the basic anatomy of the skin and mechanism of injury, pathophysiology, and classifications of burns
2. Estimate the extent of burn injuries using Jackson's Thermal Wound Theory and the Rule of Nines
3. Describe the assessment and management of thermal burn injuries

A287 Weapons of Mass Destruction – An Intro to WMD Agents – (1 CE Hour)

1. Discuss the history, delivery, and detection of biological, chemical and radioactive warfare agents.
2. Discuss the pathophysiology of biological, chemical and radioactive warfare agents.
3. Formulate a treatment plan for patients exposed to biological, chemical or radioactive warfare agents.
4. Describe measures emergency responders can take to protect themselves against biological, chemical or radioactive warfare agents.

A288 Dementia – (1 CE Hour)

1. Review the definition of and prevalence of dementia
2. Review the types of dementia
3. Learn modalities used in the daily management of dementia
4. Learn techniques for assessing and managing dementia patients

A289 Stroke Assessment and Management – (1 CE Hour)

1. Describe and discuss the epidemiology, pathophysiology, and types of stroke.
2. Discuss the assessment finding associated with stroke.
3. Formulate a treatment plan for the management of stroke.

A290 Death and Dying – (1 CE Hour)

1. Introduce the pathophysiology of death and how the EMS provider will determine that death has occurred.
2. Explore the general reaction of the survivors and the patient to the death and dying process.
3. Define which comfort measures EMS providers should consider providing.
4. Explore considerations for termination of care, applying a DNR or do not resuscitate order, and not transporting a patient.

A291 Induced Hypothermia – (1 CE Hour)

1. Describe the mechanisms of action for induced hypothermia
2. Describe the risks and patient selection associated with induced hypothermia
3. Review duration, cooling techniques, monitoring procedures and supportive care of induced hypothermia

A292 Poisons and Toxins Part 1– (1 CE Hour)

1. Define poisons
2. Describe poison transmission routes
3. Review emergency medical care of poisons

A293 Poisons and Toxins Part 2– (1 CE Hour)

1. Review types of poison emergencies
2. Describe general assessment and treatment principles
3. Overview commonly encountered poisons

A294 Introduction to the Human Brain– (1 CE Hour)

1. Review the gross functional anatomy of the human brain
2. Learn about the cells in the brain
3. Learn about how cells in the brain communicate with one another
4. Learn about how drugs, illness, and injury can alter brain function

***A295 Introduction to Capnography – (1 CE Hour)**

1. Define and describe capnography
2. Describe the four phases of a capnogram
3. Discuss abnormal capnogram patterns and abnormal capnometry values
4. Discuss the clinical applications of capnography

A296 Spinal Injury Assessment and Treatment Part 1– (1 CE Hour)

1. Review anatomy of the spinal column and spinal cord
2. Discuss mechanisms of injury and how the spine can be injured
3. Explore assessment considerations for a patient suspected of having a spinal injury

A297 Spinal Injury Assessment and Treatment Part 2– (1 CE Hour)

1. Discuss spinal immobilization techniques
2. Explore spinal immobilization challenges
3. Introduce future considerations for prehospital spinal cord injury treatment

A298 Selective Spinal Immobilization– (1 CE Hour)

1. Review statistics related to spinal column and spinal cord injuries.
2. Discuss the side effects and risks of spinal immobilization.
3. Learn the proper application of a selective spinal immobilization protocol including exclusionary criteria.

A299 Hypothermia Assessment and Treatment– (1 CE Hour)

1. To explain the causes of hypothermia and the patients most at risk
2. To describe signs and symptoms of mild, moderate, and severe hypothermia
3. To assess and treat hypothermia based on current research and guidelines

A400 The Human Body Part 1 – Critical Systems– (1 CE Hour)

1. Review history of anatomy and physiology
2. Identify topographic terms
3. Describe anatomy and function of circulatory system
4. Describe anatomy and function of respiratory system
5. Describe anatomy and function of nervous system

A401 The Human Body Part 2 – Other Systems– (1 CE Hour)

1. Review topographic terms
2. Describe the anatomy and function of the musculoskeletal system
3. Describe the anatomy and function of the integumentary system
4. Describe the anatomy and function of the gastrointestinal system
5. Describe the anatomy and function of the genitourinary system
6. Describe the anatomy and function of the endocrine system

***A402 Pharmacology Special Considerations– (1 CE Hour)**

1. Review anatomical and physiological differences specific to drug administration to pediatric patients
2. Discuss pediatric pain management
3. Explore differences specific to drug administration to geriatric patients
4. Explain drug safety and commonly used obstetrical drugs

***A403 Non-Visualized Airways Part 1– (1 CE Hour)**

1. Review airway anatomy
2. Explore difficult airway situations
3. Describe indications, contraindications, and insertion of the Combitube

***A404 Non-Visualized Airways Part 2– (1 CE Hour)**

1. Review airway anatomy
2. Explore difficult airway situations
3. Describe indications, contraindications, and insertion of the King LT and Laryngeal Mask Airway

***A405 NiPPV – (1 CE Hour)**

1. Describe Non-invasive Positive Pressure Ventilations and their physiology
2. Identify the indications, contraindications and benefits of non-invasive positive pressure ventilations
3. Explain the steps to applying NiPPV and how to adjust its settings
4. Discuss adjunctive therapies and ongoing monitoring for patients on NiPPV

***A406 Heart Failure – (1 CE Hour)**

1. Identify the incidence and frequency of heart failure
2. Explain the pathophysiology of heart failure
3. Differentiate left versus right side heart failure
4. Discuss current prehospital treatments in heart failure management

***A407 Intraosseous Infusions – (1 CE Hour)**

1. Review the history of pediatric and adult intraosseous infusions.
2. Understand the anatomy and physiology of the vascular system as it relates to intraosseous infusions.
3. Learn the indications, contraindications and complications of I-O therapy
4. Review several I-O systems and their application to prehospital patient care

***A408 Acute Coronary Syndromes – (1 CE Hour)**

1. Understand what acute coronary syndrome is
2. Understand how to assess for an acute coronary syndrome
3. Learn to differentiate different types of acute coronary syndrome
4. Explore treatment and transportation triage situations for ACS

“Excellent, I am an educator for EMT’s and paramedics and love the programs. Keep up the good work.”

***A409 Advanced Shock Part 1 – (1 CE Hour)**

1. Understand anatomy and physiology of normal circulation and oxygenation
2. Recognize the complications created in shock states

***A410 Advanced Shock Part 2 – (1 CE Hour)**

1. Understand shock signs and symptoms
2. Use knowledge to manage shock patient

A411 Understanding and Restraining Patients with Excited Delirium – (1 CE Hour)

1. Describe the signs and symptoms of excited delirium
2. Identify the factors that make excited delirium a severe medical problem
3. Describe general principles for caring for patients with excited delirium, including restraint
4. Describe controversies related to restraining, treating, and monitoring a patient with excited delirium

A412 Emergency Responder Rehabilitation – (1 CE Hour)

1. Understand the need for medical monitoring and rehabilitation during emergency operations and training exercises
2. Identify common injuries and their causes during emergency operations
3. Assess emergency responders for illness or injury in the rehab area
4. Treat emergency responders in the rehab area
5. Discuss key components of a protocol for EMS support of emergency operations

A413 Narcotics Overdose – (1 CE Hour)

1. Understand the history and pharmacology of narcotic analgesics
2. Review assessment of the narcotics overdose event
3. Explain emergency treatment and transport considerations for the overdose patient

A414 Child Abuse: An EMS Professionals Role & Responsibilities – (1 CE Hour)

1. Describe EMS professionals role related to possible child abuse
2. Explain types of abuse and abuse syndromes
3. Discuss assessment and management of the pediatric patient who has been abused
4. Examine proactive prevention programs

***A415 Defibrillation for the Paramedic– (1 CE Hour)**

1. Give some historical perspective on defibrillation
2. Discuss the chain of survival and how defibrillation fits
3. Cover the science of electrical therapy
4. Discuss automated external defibrillators
5. Explore some safety considerations and special situations

A416 Pediatric Fever for the Paramedic – (1 CE Hour)

1. Define fever in neonates and pediatric patients
2. Discuss causes of fever in the pediatric patient
3. Explain assessment of the pediatric patient with fever
4. Explore treatment considerations for the pediatric patient with fever

A417 Management of Bradycardic Rhythms for the Paramedic – (1 CE Hour)

1. Identify bradycardic dysrhythmias
2. Compare and contrast stable and unstable rhythms
3. Become familiar with pharmacologic and electrical interventions

A418 EMS Response to MCI for the Paramedic – (1 CE Hour)

1. Discuss EMS roles in MCI response
2. Explain Simple Triage and Rapid Treatment
3. Explore MCI treatment and transport considerations
4. Practice triage and MCI response skills

***A419 Pediatric Cardiac Emergencies for the Paramedic – (1 CE Hour)**

1. Discuss causes of pediatric cardiac emergencies
2. Recall relevant anatomy and physiology of cardiovascular system
3. Describe focuses assessment
4. Discuss the implications of congenital cardiac diseases
5. Discuss management of cardiac arrest in pediatric patient

Courses for BLS Providers

(EMT-Basics, EMTs)

B200 - Emergency Care for Lightning Strike Victims (1 CE Hour)

1. Describe how lightning can strike a person and cause injuries.
2. Dispel lightning myths that may affect patient care or put rescuers at risk.
3. List types of mild, moderate, and severe injuries from a lightning strike.
4. Identify proper treatments, including early CPR, for lightning strike victims.
5. List specific strategies to prevent rescuers from becoming victims of a lightning strike.

"I have learned more doing CE on CentreLearn than I did in my actual certification class. Everything is on topic and focuses completely on learning everything possible"

B201 - Unstable Pelvic Fractures (1 CE Hour)

1. Identify the major boney structures of the Pelvis, understand its primary functions, and understand how a Pelvic Fracture can effect nearby organs and blood vessels.
2. Describe mechanisms of injury and two types of pelvic fractures.
3. Use scene size-up clues, initial assessment findings, and a rapid trauma exam to assess pelvic fracture instability.
4. Describe goals, indications, and four methods to reduce and stabilize a pelvis fracture.

B202 - Disease Conditions of Chronic Alcoholism (1 CE Hour)

1. Define and understand alcohol abuse and dependence and its impacts on individuals and society.
2. Describe the pathophysiology of alcohol absorption, toxicity, and elimination.
3. Identify signs and symptoms of disease conditions of chronic alcoholic patients.
4. Treat disease conditions of chronic alcoholic patients.

B204 - Unusual Resuscitations (1 CE Hour)

1. Identify unusual resuscitation situations resulting from environmental emergencies.
2. Explain the underlying pathophysiology that complicates respiratory and cardiac resuscitation from an environmental emergency.
3. Describe treatment for respiratory and cardiac arrest resulting from an environmental emergency.
4. List reasons to not begin CPR.

B205 - Nose Bleeds, Breaks, and Obstructions (1 CE Hour)

1. Identify the major structures of the nose.
2. Discuss the functions of the nose.
3. Identify the pathophysiology of nose bleeds, breaks, and foreign bodies.
4. Apply treatments for nose bleeds, breaks, and foreign bodies.

B207 - Pain Assessment (1 CE Hour)

1. To define pain as a personal and subjective experience.
2. To describe pain classification methods.
3. To articulate the body's process of communicating tissue damage to the brain.
4. To methodically assess every patient's pain.
5. To overcome challenging pain assessment situations.

B208 - Pain Management (1 CE Hour)

1. To understand barriers to under treatment of pain.
2. To assess patient pain before and after treatment.
3. To lessen pain with non-pharmacological and pharmacological pain treatments methods.
4. To identify components of a prehospital pain management protocol.

B210 – Drug Seeking Behavior – (1 CE Hour)

1. To define drug dependence, drug tolerance, and drug addiction
2. To explain myths and realities of drug seeking behavior
3. To understand prehospital assessment and treatment of drug seeking behavior

B211 – Fetal Trauma from MVA – (1 CE Hour)

1. To review pregnancy anatomy and physiology*
2. To describe fetal trauma injuries*
3. To assess and treat maternal trauma*
4. To learn components of fetal assessment*
5. To review strategies to prevent fetal trauma from motor vehicle collisions

B212 - Complementary and Alternative Medicine (1 CE Hour)

1. To Define complementary and alternative medicine.
2. To Describe common CAM treatments.
3. To Understand impact of CAM on EMS.
4. To Assess and document CAM use.
5. To explore the risks and adverse effects of some CAM treatments and supplements.

B213 - Assessment, Treatment, and Transport of Morbidly Obese Patients (1 CE Hour)

1. Define overweight, obese, and morbidly obese.
2. Explore the health consequences of obesity and morbid obesity.
3. Understand assessment challenges and treatment strategies for obese and morbidly obese patients.
4. Explain lifting, moving, and extrication complications for obese and morbidly obese patients.

B214 - Assessment and Treatment of Ankle Injuries (1 CE Hour)

1. Discuss the anatomy and function of the ankle joint and the foot.
2. Review the kinematics and mechanisms of injury for the ankle.
3. Learn to perform a thorough examination of the ankle.
4. Apply appropriate treatments for an injured ankle.

B215 - Avalanche! Rescue, Injury, and Treatment (1 CE Hour)

1. Understand how an avalanche occurs.
2. Identify avalanche injury patterns.
3. Review basic avalanche rescue principals for rapid location and extrication.
4. Explain assessment and treatment priorities for single or multiple patients.

B216 – Low Back Pain (1 CE Hour)

1. Review important spinal column anatomy.
2. Discuss the causes of low back pain.
3. Explain prehospital assessment of low back pain.
4. Provides prehospital treatment for low back pain.

B217 - Animal Bite Assessment and Treatment (1 CE Hour)

1. Identify types and causes of animal bites.
2. Predict adult and pediatric injury patterns from animal bites.
3. Explain animal bite assessment guidelines.
4. Review animal bite treatment strategies.
5. Discuss animal bite complications.

B218 - Assessment and Treatment of Submersion Injuries (1 CE Hour)

1. Discuss submersion injury statistics.
2. Explain causes of submersion injuries.
3. Understand submersion injury patterns.
4. Explore rescue and extrication considerations for submersion injury patients.
5. Describe assessment and treatment of a submersion injury patient.

B219 – Assessment and Treatment of Heat Emergencies (1CE Hour)

1. Review the physiology of thermoregulation
2. Explore causes of heat emergencies
3. Identify patients at increased risk of heat emergencies
4. Differentiate types of heat emergencies
5. Understand techniques to assess and treat heat emergencies

B220 - Pediatric Patient Assessment: Part 1 (1 CE Hour)

1. Review pediatric patient traits
2. Explore relevant pediatric anatomy and physiology
3. Discuss causes of pediatric injury and death

B221 - Pediatric Patient Assessment: Part 2 (1 CE Hour)

1. Discuss pediatric patient assessment techniques
2. Explore principles for immobilizing pediatric patients
3. Explain issues in pediatric patient transport

B222 - Pediatric Fluid Resuscitation and Airway Management (1 CE Hour)

1. Explore causes of fluid depletion in pediatric patients
2. Explain fluid resuscitation methods
3. Discuss common causes of respiratory system compromise
4. Review pediatric airway management technique

B223 - Hip Fracture Assessment and Treatment (1 CE Hour)

1. Review hip anatomy and physiology
2. Explore causes of a hip fracture
3. Discuss assessment of a hip fracture
4. Explain hip fracture treatments
5. Encourage EMS participation in elderly fall prevention programs

B224 - Methamphetamine Use and Hazards for EMS (1 CE Hour)

1. Review the effects of methamphetamine use
2. Identify the extent of methamphetamine use in the United States
3. Discuss scene safety hazards of clandestine drug labs
4. Explore assessment and treatment of meth users
5. Explain special considerations for pediatric patients found at clandestine drug labs

B225 - Recognition and Treatment of Foot Injuries (1 CE Hour)

1. Identify the structural anatomy of the foot
2. Understand the factors that increase the risk for foot injury
3. Explore how the mechanism of injury predicts foot injury patterns
4. Explain a detailed foot exam
5. Discuss general and specific treatments for foot injuries

B226 - Recognition and Management of Over-the-Counter Drug Overdoses (1 CE Hour)

1. Understand which groups of people are likely to overdose on OTC's and what factors enhance drug actions
2. Recognize the symptoms of specific overdoses and anticipate illness patterns
3. Explain the importance of a thorough patient assessment
4. Identify proper and aggressive treatments for overdoses

B227 - Management of Cervical Spine Injuries in Athletics (1 CE Hour)

1. Review c-spine anatomy
2. Discuss mechanisms of c-spine injury
3. Review signs and symptoms of c-spine injury
4. Explore injury evaluation and treatment, including life threats

B228 - Management of Cervical Spine Injuries in Athletics Part 2 (1 CE Hour)

1. Explore recommendations for treatment and transport of the c-spine injured athlete
2. Describe tools and techniques for helmet facemask removal
3. Discuss proper technique for equipment removal and preparation for transport

B229 - Sepsis (1 CE Hour)

1. To understand some basic sepsis terms, including the definition of what sepsis is and what it is not.
2. To recognize the demographics of those most at risk for sepsis and sepsis mortality.
3. To explain the pathology of an infection as it affects the body.
4. To understand the importance of and how to prevent infection in the prehospital setting.
5. To use a thorough assessment to recognize sepsis and provide aggressive management.

B233 - Basic 12-Lead Electrocardiogram Operation and Interpretation (1 CE Hour)

1. Understand basic heart anatomy
2. Define the process leading to acute coronary syndrome
3. Be able to attach the 12-lead EKG to patient and record
4. Trouble shoot acquisition problems
5. Introduce interpretation and treatment techniques

B234 - Demystifying the Central Line (1 CE Hour)

1. Explain the various reasons patients have a central line and discuss where central lines are placed
2. Recognize the features of different types of central lines
3. Explain complications of insertion and use of central lines
4. Explain the methods to access central lines

B235 - Mass Casualty Incidents (1 CE Hour)

1. Discuss EMS roles in MCI response.
2. Explain Simple Triage and Rapid Treatment (START).
3. Explore MCI treatment and transport considerations.
4. Practice triage and MCI response skills.

B236 - Medical Staffing at Large Events (1 CE Hour)

1. Describe the challenges of providing medical coverage at a large sporting event
2. Discuss pre-planning considerations for a large sporting event
3. Explain communication principles for a large sporting event
4. Discuss race day logistics
5. Describe the medical staffing, triage, and treatment process

B237 – Clinical Decision Making (1 CE Hour)

1. Identify factors that influence medical care in the pre-hospital environment.
2. Define the components, stages and sequences of the critical thinking process.
3. Describe factors that have positive and negative effects on decision making.
4. Summarize the “six Rs” of effective clinical decision making.
5. Explore several situations that require clinical decision making.

B239 – Emergency Childbirth (1 CE Hour)

1. Review relevant anatomy and physiology.
2. Discuss assessment and care for the obstetric patient with impending delivery.
3. Explain assessment and care to the newborn infant.
4. Review care to the mother immediately following the delivery of a newborn.

B240 – Obstetric Complications (1 CE Hour)

1. Review the anatomic structures and physiology of the reproductive system.
2. Discuss assessment of the obstetric patient.
3. Review obstetric patient treatment.
4. Describe pregnancy and delivery complications.
5. Review the anatomic structures and physiology of the reproductive system.

B241 – Abdominal Emergencies (1 CE Hour)

1. Review abdominal cavity anatomy.
2. Learn to assess the patient with an abdominal complaint.
3. Discuss general abdominal emergency treatment.
4. Review abdominal emergency cases.

B242 – Avian Influenza (1 CE Hour)

1. Define Avian Influenza.
2. Discuss transmission of Avian Influenza.
3. Describe what EMS providers can do to be prepared.

B243 – Allergic Reaction Management (1 CE Hour)

1. Discuss the causes and physiology of allergic reactions and anaphylaxis.
2. Recognize the signs and symptoms of a severe allergic reaction.
3. Understand treatments for patients suffering a severe allergic reaction.

B244 – Renal Failure (1 CE Hour)

1. Review kidney anatomy and physiology.
2. Define renal failure and various types of renal disease.
3. Discuss common medical conditions that result from or cause renal
4. Overview types of dialysis.
5. Explore key assessment and management principles for a renal failure patient.

B245 – Patient Care Report Essentials (1 CE Hour)

1. Discuss reasons for high quality documentation.
2. Explain steps to improve the quality of patient care reports.

B246 – Ethics for the EMS Provider (1 CE Hour)

1. Review ethics terminology.
2. Describe personal and professional codes of ethics.
3. Describe ethical dilemmas and steps that can be used to solve them.
4. Discuss ethical issues that face EMS providers.

B247 – Asystole and PEA: Treating the Non-shockable Rhythms (1 CE Hour)

1. List situations when no possibility of life exists and a resuscitation attempt is unnecessary.
2. Explain likely causes of asystole and pulseless electrical activity.
3. Describe assessment of asystole and pulseless electrical activity.
4. Describe treatments for asystole and pulseless electrical activity.
5. Describe the criteria for terminating resuscitative efforts and tips for talking to the patient's family.

B248 – Altitude Illness (1 CE Hour)

1. Describe the pathophysiology of altitude illness.
2. Assess the presence and the severity of altitude illness in different body systems.
3. Describe treatment to and reverse the adverse effects of altitude.
4. Determine when ALS intervention is required, and for ALS providers, implement pharmacological interventions.

B249 – Foodborne Illness (1 CE Hour)

1. Define foodborne illness.
2. Discuss the causes and symptoms of foodborne illness.
3. Explore the various foodborne illness agents.
4. Review prevention, assessment and treatment of foodborne illness.

B250 – Asthma Part 1 (1 CE Hour)

1. Identify the epidemiology, anatomy, and pathophysiology associated with asthma.
2. Explore assessment findings associated with asthma attacks.

B251 – Asthma Part 2 (1 CE Hour)

1. Discuss ALS and BLS treatment strategies for asthma attacks.

B252 – Detailed Physical Exam (1 CE Hour)

1. Review patient assessment components.
2. Explore general principles for completing a detailed head to toe physical exam.
3. Discuss the specific steps of the detailed head to toe physical exam.

B253 – Kinematics of Trauma (1 CE Hour)

1. Review the three mechanisms of injury.
2. Describe the three phases of events which contribute to traumatic injuries.
3. Describe the laws of energy and motion and their relationship to traumatic injuries.

B254 – Depression (1 CE Hour)

1. Define depression
2. Discuss the causes and symptoms of depression
3. Explore the major types of depression
4. Review assessment and treatment principles
5. Discuss prevention techniques for emergency response personnel

B255 – Airway Management (1 CE Hour)

1. Describe airway structures and function
2. List important differences in pediatric airway anatomy
3. Explore basic airway management techniques
4. Describe delivery of ventilations and supplemental oxygen

B256 – Patient Assessment Part 1 (1 CE Hour)

1. To describe the components of the scene size up
2. To describe the components of the initial assessment

B257 – Patient Assessment Part 2 (1 CE Hour)

1. To describe the components of the scene size up
2. To describe the components of the initial assessment

B258 – Emergency Treatment of V-Fib and Pulseless V-Tach (1 CE Hour)

1. Describe the causes of ventricular tachycardia and ventricular fibrillation
2. Identify the physiology of ventricular tachycardia and ventricular fibrillation
3. Review the assessment of ventricular tachycardia and ventricular fibrillation
4. Explain the treatment of pulseless ventricular tachycardia and ventricular fibrillation

B259 – Assessment and Management of Ventricular Tachycardia with Pulses (1 CE Hour)

1. Discuss the causes of ventricular tachycardia with pulses
2. Review the methods to assess ventricular tachycardia
3. Provide judgment criteria to distinguish between stable and unstable ventricular tachycardia
4. Explain the treatment of both stable and unstable ventricular tachycardia

B260 – Nausea and Vomiting (1 CE Hour)

1. Discuss the anatomy and physiology related to vomiting
2. Explore causes of nausea and vomiting
3. Describe assessment of patients suffering from persistent vomiting
4. Explain management of patients suffering from persistent vomiting

B261 – Tricyclic Antidepressant Overdose (1 CE Hour)

1. Describe the indications for T-C-A medications
2. Explore the pharmacology of T-C-A medications
3. Discuss assessment and treatment of T-C-A overdose patients

B262 – Calcium Channel Blocker Overdose (1 CE Hour)

1. Explain the effects and uses of calcium channel blocker medications
2. Discuss calcium channel blocker overdose signs and symptoms
3. Review assessment components for a suspected calcium channel blocker overdose
4. Describe treatment for calcium channel blocker overdose

B263 – Methicillin Resistant Staphylococcus Aureus - MRSA (1 CE Hour)

1. Define MRSA
2. Discuss the causes and symptoms of MRSA
3. Discuss prevention techniques for emergency response personnel

B264 – Smallpox (1 CE Hour)

1. Define smallpox
2. Discuss the causes and symptoms of smallpox
3. Discuss prevention, preparation and treatment principles for emergency service personnel

B266 – Diabetic Ketoacidosis - (1 CE Hour)

1. Describe the pathophysiology of diabetic ketoacidosis and how it differs from normal blood sugar metabolism
2. Discuss the signs and symptoms of DKA
3. Review assessment strategies for a patient with DKA
4. Explore treatment options for a patient with DKA

B268 – Diabetic Emergencies Part 1 - (1 CE Hour)

1. Describe the normal relationship between insulin, glucagon, and glucose levels in the blood
2. Discuss the pathophysiology of diabetes mellitus
3. Explore types of diabetic emergencies

B269 – Diabetic Emergencies Part 2 - (1 CE Hour)

1. Review the clinical significance of assessment findings for a patient with a diabetic emergency
2. Introduce treatment options for diabetic emergencies

B270 – Assessing and Treating Patients with Service Animals - (1 CE Hour)

1. Define service animals
2. Describe functions service dogs perform
3. Describe how to recognize a service dog
4. Define assessment and treatment principles for patients with service dogs
5. Discuss other considerations relating to service dogs

B271 – Shock and Shock Management - (1 CE Hour)

1. Describe relevant anatomy and physiology of the cardiovascular system.
2. Explain various stages of shock.
3. Explore assessment findings associated with shock.
4. Discuss the treatment plan for shock.
5. Introduce the concept of an acute stress reaction.

B272 – Pandemic Influenza Part 1 - (1 CE Hour)

1. Define pandemic flu
2. Discuss the causes and symptoms of pandemic flu
3. Review treatment principles for pandemic flu

B273– Pandemic Influenza Part 2 - (1 CE Hour)

1. Discuss pandemic influenza prevention techniques
2. Overview pandemic planning preparation principles
3. Review pandemic planning guidelines for emergency response personnel

B274 – Geriatric Assessment Challenges - (1 CE Hour)

1. Review the demographics of the geriatric population.
2. Identify physical factors that complicate the assessment of a geriatric patient.
3. Identify psychosocial and emotional issues that may complicate the assessment of a geriatric patient.
4. Employ tools to conduct efficient interview of geriatric patients.

B275 Traumatic Brain Injury – (1 CE Hour)

1. Explore brain anatomy and TBI pathophysiology
2. Determine presence or absence of TBI
3. Assess the likelihood of developing Elevated ICP
4. Recognize Elevated ICP in early
5. Describe TBI treatment
6. Describe treatment of a patient with Elevated ICP

B276 Cyanide Poisoning – (1 CE Hour)

1. Overview the chemical cyanide and its various uses
2. Review how cyanide enters the body and the body systems affected
3. Identify specific signs and symptoms of cyanide exposure or poisoning
4. Discuss assessment and treatment strategies that are available to pre-hospital providers

B277 Ecstasy Abuse Management – (1 CE Hour)

1. Discuss the history, common names, and pharmacology of ecstasy ingestion
2. Recognize the signs and symptoms related to ecstasy abuse
3. Develop a treatment plan for patients suffering from the effects of an ecstasy ingestion

B278 General Science – (1 CE Hour)

1. Discuss matter, states of matter, atoms, elements and the different ways they combine to form molecules and compounds.
2. Define chemical reaction and distinguish between the two major types important for studying physiology.
3. Describe factors that affect chemical reaction rates.

B279 Special K – (1 CE Hour)

1. Discuss the history, common names, and pharmacology of ketamine ingestion.
2. Recognize the signs and symptoms related to ketamine abuse.
3. Develop a treatment plan for patients suffering from the effects of ketamine ingestion.

B280 Snowmobile Trauma – (1 CE Hour)

1. Review the statistics associated with snowmobile crashes
2. Discuss the importance of EMT safety in snowmobile crash rescues
3. Understand common mechanisms of injury in snowmobile traumas
4. Learn assessment points specific to snowmobile injuries
5. Review management techniques for snowmobile trauma

B281 Pharmacology and Drug Administration – (1 CE Hour)

1. Review basic pharmacodynamics and pharmacokinetics
2. Explore essentials of drug administration
3. Discuss the indications and use of specific medications

B282 Suicide – Deliberate Death – (1 CE Hour)

1. Define suicide
2. Describe at risk populations
3. Overview warning signs
4. Review assessment and treatment principles
5. Describe preventative measures for emergency response personnel

B283 Seizure Management – (1 CE Hour)

1. Explore causes of seizures
2. Describe types of seizures and what happens to the body during different types of seizures
3. Review seizure assessment and treatment principles

B284 Musculoskeletal Injuries Part 1 – (1 CE Hour)

1. Review anatomy and physiology of muscles, bones, and joints
2. Describe types and causes of bone and joint injuries
3. Review specific musculoskeletal injuries

B285 Musculoskeletal Injuries Part 2 – (1 CE Hour)

1. Describe musculoskeletal injury assessment and treatment principles
2. Explain general splinting techniques
3. Define special considerations when splinting
4. Review pain management and reassessment principles

B286 Burn Injury and Assessment – (1 CE Hour)

1. Define the basic anatomy of the skin and mechanism of injury, pathophysiology, and classifications of burns
2. Estimate the extent of burn injuries using Jackson's Thermal Wound Theory and the Rule of Nines
3. Describe the assessment and management of thermal burn injuries

B287 Weapons of Mass Destruction – An Intro to WMD Agents – (1 CE Hour)

1. Discuss the history, delivery, and detection of biological, chemical and radioactive warfare agents.
2. Discuss the pathophysiology of biological, chemical and radioactive warfare agents.
3. Formulate a treatment plan for patients exposed to biological, chemical or radioactive warfare agents.
4. Describe measures emergency responders can take to protect themselves against biological, chemical or radioactive warfare agents.

B288 Dementia – (1 CE Hour)

1. Review the definition of and prevalence of dementia
2. Review the types of dementia
3. Learn modalities used in the daily management of dementia
4. Learn techniques for assessing and managing dementia patients

B289 Stroke Assessment and Treatment – (1 CE Hour)

1. Describe and discuss the epidemiology, pathophysiology, and types of stroke.
2. Discuss the assessment finding associated with stroke.
3. Formulate a treatment plan for the management of stroke.

B290 Death and Dying – (1 CE Hour)

1. Introduce the pathophysiology of death and how the EMS provider will determine that death has occurred.
2. Explore the general reaction of the survivors and the patient to the death and dying process.
3. Define which comfort measures EMS providers should consider providing.
4. Explore considerations for termination of care, applying a DNR or do not resuscitate order, and not transporting a patient.

B291 Induced Hypothermia – (1 CE Hour)

1. Describe the mechanisms of action for induced hypothermia
2. Describe the risks and patient selection associated with induced hypothermia
3. Review duration, cooling techniques, monitoring procedures and supportive care of induced hypothermia

B292 Poisons and Toxins Part 1– (1 CE Hour)

1. Define poisons
2. Describe poison transmission routes
3. Review emergency medical care of poisons

B293 Poisons and Toxins Part 2– (1 CE Hour)

1. Review types of poison emergencies
2. Describe general assessment and treatment principles
3. Overview commonly encountered poisons

B294 Introduction to the Human Brain – (1 CE Hour)

1. Review the gross functional anatomy of the human brain
2. Learn about the cells in the brain
3. Learn about how cells in the brain communicate with one another
4. Learn about how drugs, illness, and injury can alter brain function

B295 Introduction to Capnography– (1 CE Hour)

1. Define and describe capnography
2. Describe the four phases of a capnogram
3. Discuss abnormal capnogram patterns and abnormal capnometry values
4. Discuss the clinical applications of capnography

B296 Spinal Injury Assessment and Treatment Part 1– (1 CE Hour)

1. Review anatomy of the spinal column and spinal cord
2. Discuss mechanisms of injury and how the spine can be injured
3. Explore assessment considerations for a patient suspected of having a spinal injury

B297 Spinal Injury Assessment and Treatment Part 2– (1 CE Hour)

1. Discuss spinal immobilization techniques
2. Explore spinal immobilization challenges
3. Introduce future considerations for prehospital spinal cord injury treatment

B298 Selective Spinal Immobilization– (1 CE Hour)

1. Review statistics related to spinal column and spinal cord injuries.
2. Discuss the side effects and risks of spinal immobilization.
3. Learn the proper application of a selective spinal immobilization protocol including exclusionary criteria.

B299 Hypothermia Assessment and Treatment– (1 CE Hour)

1. To explain the causes of hypothermia and the patients most at risk
2. To describe signs and symptoms of mild, moderate, and severe hypothermia
3. To assess and treat hypothermia based on current research and guidelines

B400 The Human Body Part 1 – Critical Systems– (1 CE Hour)

1. Review history of anatomy and physiology
2. Identify topographic terms
3. Describe anatomy and function of circulatory system
4. Describe anatomy and function of respiratory system
5. Describe anatomy and function of nervous system

B401 The Human Body Part 2 – Other Systems– (1 CE Hour)

1. Review topographic terms
2. Describe the anatomy and function of the musculoskeletal system
3. Describe the anatomy and function of the integumentary system
4. Describe the anatomy and function of the gastrointestinal system
5. Describe the anatomy and function of the genitourinary system
6. Describe the anatomy and function of the endocrine system

B402 Pharmacology Special Considerations– (1 CE Hour)

1. Review anatomical and physiological differences specific to drug administration to pediatric patients
2. Discuss pediatric pain management
3. Explore differences specific to drug administration to geriatric patients
4. Explain drug safety and commonly used obstetrical drugs

B403 Non-Visualized Airways Part 1– (1 CE Hour)

1. Review airway anatomy
2. Explore difficult airway situations
3. Describe indications, contraindications, and insertion of the Combitube

B404 Non-Visualized Airways Part 2– (1 CE Hour)

1. Review airway anatomy
2. Explore difficult airway situations
3. Describe indications, contraindications, and insertion of the King LT and Laryngeal Mask Airway

B405 NiPPV – (1 CE Hour)

1. Describe Non-invasive Positive Pressure Ventilations and their physiology
2. Identify the indications, contraindications and benefits of non-invasive positive pressure ventilations
3. Explain the steps to applying NiPPV and how to adjust its settings
4. Discuss adjunctive therapies and ongoing monitoring for patients on NiPPV

B406 Heart Failure – (1 CE Hour)

1. Identify the incidence and frequency of heart failure
2. Explain the pathophysiology of heart failure
3. Differentiate left versus right side heart failure
4. Discuss current prehospital treatments in heart failure management

B407 Intraosseous Infusions – (1 CE Hour)

1. Review the history of pediatric and adult intraosseous infusions.
2. Understand the anatomy and physiology of the vascular system as it relates to intraosseous infusions.
3. Learn the indications, contraindications and complications of I-O therapy
4. Review several I-O systems and their application to prehospital patient care

B408 Acute Coronary Syndromes – (1 CE Hour)

1. Understand what acute coronary syndrome is
2. Understand how to assess for an acute coronary syndrome
3. Learn to differentiate different types of acute coronary syndrome
4. Explore treatment and transportation triage situations for acute considerations

B409 Advanced Shock Part 1 – (1 CE Hour)

1. Understand anatomy and physiology of normal circulation and oxygenation
2. Recognize the complications created in shock states

B410 Advanced Shock Part 2 – (1 CE Hour)

1. Understand shock signs and symptoms
2. Use knowledge to manage shock patient

B411 Understanding and Restraining Patients with Excited Delirium – (1 CE Hour)

1. Describe the signs and symptoms of excited delirium
2. Identify the factors that make excited delirium a severe medical problem
3. Describe general principles for caring for patients with excited delirium, including restraint
4. Describe controversies related to restraining, treating, and monitoring a patient with excited delirium

B412 Emergency Responder Rehabilitation – (1 CE Hour)

1. Understand the need for medical monitoring and rehabilitation during emergency operations and training exercises
2. Identify common injuries and their causes during emergency operations
3. Assess emergency responders for illness or injury in the rehab area
4. Treat emergency responders in the rehab area
5. Discuss key components of a protocol for EMS support of emergency operations

B413 Narcotics Overdose – (1 CE Hour)

1. Understand the history and pharmacology of narcotic analgesics
2. Review assessment of the narcotics overdose event
3. Explain emergency treatment and transport considerations for the overdose patient

B414 Child Abuse: An EMS Professionals Role & Responsibilities – (1 CE Hour)

1. Describe EMS professionals role related to possible child abuse
2. Explain types of abuse and abuse syndromes
3. Discuss assessment and management of the pediatric patient who has been abused
4. Examine proactive prevention programs

B415 Defibrillation for the EMT– (1 CE Hour)

1. Give some historical perspective on defibrillation
2. Discuss the chain of survival and how defibrillation fits
3. Cover the science of electrical therapy
4. Discuss automated external defibrillators
5. Explore some safety considerations and special situations

B416 Pediatric Fever for the Paramedic– (1 CE Hour)

1. Define fever in neonates and pediatric patients
2. Discuss causes of fever in the pediatric patient
3. Explain assessment of the pediatric patient with fever
4. Explore treatment considerations for the pediatric patient with fever

B418 EMS Response to MCI for the Paramedic – (1 CE Hour)

1. Discuss EMS roles in MCI response
2. Explain Simple Triage and Rapid Treatment
3. Explore MCI treatment and transport considerations
4. Practice triage and MCI response skills

B419 Pediatric Cardiac Emergencies for the EMT – (1 CE Hour)

1. Discuss causes of pediatric cardiac emergencies
2. Recall relevant anatomy and physiology of cardiovascular system
3. Describe focused assessment
4. Discuss the implications of congenital cardiac diseases
5. Discuss management of cardiac arrest in pediatric patient

Occupational Safety and Health Courses for All EMS and Fire Providers

B301 Bloodborne Pathogens (1 CE Hour)

1. Define bloodborne pathogen and pertinent elements of the OSHA standard.
2. Discuss common bloodborne pathogens.
3. Review the value of the Hepatitis B Vaccination.
4. Discuss the methods, value, and limitations of personal protective equipment or PPE.

B303 Respiratory Protection and Tuberculosis (1 CE Hour)

1. Introduce OSHA requirements for a respiratory protection program.
2. Describe TB transmission, signs and symptoms, and treatment.
3. Explain the relevant elements of a respiratory protection program for EMS providers.

B307 Lifting and Back Safety (1 CE Hour)

1. Explore the incidence of lifting related back injury in EMS.
2. Review important spinal column anatomy.
3. Discuss the causes of back injury.
4. Explain techniques and principles for lifting.
5. Introduce strength and flexibility exercises to prevent back injuries.

B309 Violence in the Workplace (1 CE Hour)

1. To define workplace violence.
2. To discuss the incidence of workplace violence.
3. To explore risk factors for workplace violence.
4. To describe elements of a workplace violence prevention program.

B311 Stress in the Workplace (1 CE Hour)

1. Define stress.
2. Discuss causes of workplace stress.
3. Discuss the effects of stress.
4. Describe stress reduction techniques.

B313 HIV/AIDS Part 1 (1 CE Hour)

1. Define AIDS and HIV.
2. Discuss the scope of the disease.
3. Review HIV/AIDS transmission.
4. Discuss clinical management.
5. Discuss consequences of being infected with HIV/AIDS.

B315 HIV/AIDS Part 2 (1 CE Hour)

1. Discuss emergency response personnel exposure to HIV/AIDS.
2. Review the rights of emergency response personnel.
3. Overview typical calls emergency response personnel respond to with HIV/AIDS patients.

B319 Sexual Harassment in the Workplace (1 CE Hour)

1. Define sexual harassment.
2. Discuss the incidence of sexual harassment.
3. Explore risk factors for sexual harassment.
4. Describe elements of a sexual harassment policy.

B321 Functional Fitness (1 CE Hour)

1. Discuss line of duty fatalities and on the job injuries
2. Describe how “functional training” is different than traditional training
3. Demonstrate CORE strengthening and flexibility exercises
4. Demonstrate functional fitness exercises for emergency responder tasks

B323 Eye Protection (1 CE Hour)

1. Review eye anatomy
2. Discuss common causes, hazards and injuries to the eye
3. Overview types of eye protection
4. Review eye safety techniques
5. Discuss general assessment, treatment and prevention principles for eye injuries

B325 Hearing Protection (1 CE Hour)

1. Review ear anatomy
2. Explore hearing protection standards and regulations
3. Discuss common causes, hazards, and injuries to the ear
4. Overview types of ear protection
5. Review practices for preventing ear injuries

B327 Slips, Trips and Falls (1 CE Hour)

1. Define slips, trips and falls
2. Discuss common causes, hazards and injuries
3. Describe safety techniques and prevention practices

B329 Electric Hazards (1 CE Hour)

1. Describe injuries that may result from contact with electricity
2. Define electrical hazards that may be encountered
3. Discuss methods of protection from electrical hazards
4. Review general treatment principles for electrical injuries

B331 Intro to OSHA and General Safety (1 CE Hour)

1. Define OSHA
2. Describe importance of following safety standards
3. Introduce workplace safety lessons in CentreLearn’s OSHA series

B333 Ergonomics (1 CE Hour)

1. Describe injuries that may result from poor ergonomics
2. Define potential ergonomic hazards
3. Discuss methods of prevention

B337 Sports Medicine for EMS – (1 CE Hour)

1. Explore differences in EMS and Sports medicine philosophies towards injury assessment and treatment
2. Discuss sports venue pre-planning
3. Review general considerations when responding to sports venues
4. Understand athletic trainer qualifications and training
5. Introduce how to best liaison with athletic trainers

B341 Workplace Diversity – (1 CE Hour)

1. Define diversity
2. Discuss effects of diversity at work
3. Discuss successful diversity strategies at work

B342 Fire Extinguishers: Extinguish or Evacuate? – (1 CE Hour)

1. Discuss reasons for fire extinguisher training
2. Define the fire tetrahedron, classes of fires, and types of fire extinguishers *
3. Review steps to take to use a fire extinguisher when a fire is discovered
4. Describe limits of portable fire extinguishers

B343 Hazard Communication Standards – (1 CE Hour)

1. Identify the purpose and elements of the hazard communication standard
2. Discuss the purpose and key requirements of the Safety Data Safety Sheet S
3. Explain the purpose of and key requirements of labels
4. Review health information concepts, terms, and protective measures

B344 EMS Hazmat Awareness – (1 CE Hour)

1. Describe how to recognize hazardous-materials incidents
2. Explain self-protection measures at a hazmat scene
3. Describe procedures for working safely at a hazmat incident

Courses Approved for Educators**E100 Don't Lose Your Cool: Dealing with Problem Students – (1 CE Hour)**

1. Apply differing instructional and disciplinary approaches based on an assessment of the students' difficult behaviors.
2. Utilize primary policies and practices to prevent problem behaviors.
3. Apply key methods of targeting and eliminating difficult behaviors in the classroom.

E101 Is it Cheating or Group Problem Solving – (1 CE Hour)

1. Explain the scope of cheating in EMS education
2. Discuss limited impact of common barriers
3. Describe a continuum of solutions

E102 Student Centered Education in the Digital Age – (1 CE Hour)

1. Introduce student-centered learning theory and its application to education in emergency services education
2. Discuss tools and methods to improve information access and engagement for students using both synchronous and asynchronous learning
3. Explore student-centered approaches to increase students' ability to apply their knowledge in dynamically changing environments

E103 Incorporating Critical Thinking in Education – (1 CE Hour)

1. The role and dangers of Stimulus/Response education
2. Methods to incorporate Critical Thinking in a variety of emergency service education and testing environments
3. Barriers and Inhibitors to the incorporation of Critical Thinking in emergency service education.

E104 Powerful Presentations – (1 CE Hour)

1. Utilization of story form to promote emotional connection with, and change in, those listening
2. Methods to take an educator's message and make it "sticky," thereby making it memorable, actionable, and shareable.
3. Effective program and presentation development techniques including storyboarding, clustering, filtering, and visualizing



CentreLearn's FIRE courses offer a comprehensive catalog of NFPA standards compliant courses for firefighters, fire inspectors, and fire officers.

Courses for Firefighters, Fire Inspectors, and Fire Officers

(Compliant with NFPA standards)

F205 School Fire and Life Safety Inspection

1. Review inspection process
2. Review historical fires and impact on codes
3. Identify common hazards
4. Develop corrective action statements

F206 High Rise Fire and Life Safety Inspection

1. Review inspection process
2. Review historical fires and impact on codes
3. Identify common hazards
4. Develop effective corrective action statements

F207 Assembly Occupancy Fire and Life Safety Inspection

1. Review inspection process
2. Review historical fires and impact on codes
3. Identify common hazards
4. Develop effective corrective action statements

F300 Thermal Imaging Cameras (TIC)

1. Describe the various uses of a thermal imaging camera.
2. Explain the proper maintenance and function of a thermal imaging camera.
3. List the benefits and limitations of thermal imaging cameras.

F301 Emergency Scene Safety: Carbon Monoxide Emergency Safety

1. Describe the various environments where carbon monoxide would most likely be present
2. Describe the appropriate procedures to operate in an environment where carbon monoxide may be present, including the appropriate PPE
3. Describe the signs and symptoms of carbon monoxide poisoning

F302 Rehab Operations

1. Discuss the reasons for conducting rehab
2. Describe the placement and operations of rehab
3. Review vital signs guidelines.

F303 Leadership and Ethics

1. Explain the meaning of ethics and how it fits into the fire service.
2. Describe the various leadership styles.
3. Explain how ethics affect leadership.

F304 The Task Size-up: Situational Awareness and the Consequences of Loss

1. Describe situational awareness.
2. Show how to recognize the loss of situational awareness
3. Explain the importance of situational awareness in decision making

"Excellent information for the fire ground as well as company officer and fire fighters alike"

F305 Use of Ropes and Knots on the Fireground

1. Identify the different types of ropes and knots and their uses on the fire ground
2. Demonstrate how to tie eight common knots and techniques for hoisting tools and equipment on the fire ground
3. Demonstrate techniques for hoisting tools and equipment

F306 Emergency Scene Safety - Electrical Emergency Safety

1. Explain why electricity can be dangerous and present the inherent risks on electrical emergency scenes
2. Discuss the types and causes of electrical emergencies
3. Identify strategies for safely operating on an electrical emergency scene

F307 Training for Fireground Safety

1. Describe how the use of scenario-based training can help predict the actions and abilities of firefighters when they get to the fireground.
2. Describe how a scenario-based training program can increase fireground safety.
3. Discuss methods to create training programs to impact fireground safety.

F308 Rapid Intervention Teams by Objective

1. Explain the importance of rapid intervention teams
2. Discuss how to implement rapid intervention teams on emergency scenes
3. Describe what procedures to follow in the event of a mayday

F309 Fireground Safety - Ventilation Safety

1. Describe the inherent risks of performing ventilation tasks on the fireground
2. Explain how to perform ventilation techniques in a safe manner
3. Discuss how to determine which ventilation technique to utilize based on safety measures

F310 Technical Rescue Incidents Safety - Confined Space Incidents

1. Describe a confined space.
2. Describe the safety concerns when working at a confined space incident.
3. Explain the safety equipment used at the scene of a confined space incident.

F311 Emergency Scene Safety – Gas Emergency Safety

1. Describe the various risks of working at the scene of a gas emergency.
2. Discuss the various types of incidents that may be involved in a gas emergency.
3. Describe the appropriate operations at the scene of various gas emergencies.

F312 Proactive Rapid Intervention Team Size-Up

1. Describe how to develop Standard Operating Procedures (SOPs)
2. Identify tools and equipment
3. Discuss training requirements for RIT teams

F313 Trench Rescue Scene Safety

1. Identify inherent risks of operating at the scene of a trench rescue
2. Describe a trench rescue
3. Describe safety measures that should be in place prior to and during the operation of a trench rescue

F314 Technical Rescue Incidents Safety – Collapse

1. Describe the inherent risks of operating at the scene of a structural collapse
2. Cover the safety measures that should be in place prior to and during operations at the scene of a structural collapse
3. Explain the appropriate resources needed to operate safely at the scene of an incident

F315 Hazard Assessment – A Practical Guide

1. Explain how to determine what type of PPE to wear
2. Describe how to identify hazards at the scene of an incident
3. Describe how to determine the resources needed at the scene of an incident based on the hazards

F316 How to Read a Building

1. Describe the various types of building construction.
2. Explain how to evaluate a building during your scene size-up.
3. Discuss how to identify various building constructions within the same sector.

F317 What Your Meters Are Really Telling You

1. Identify the different meters including CO monitor, gas meter and radiation detector.
2. Explain what the readings mean on the meter in terms of the environment and precautions including what PPE to use.
3. Describe how to properly use a CO monitor, gas meter, radiation detector.

F318 Wildland Fire Behavior

1. Characteristics of wildland fires
2. Tactics and strategies for fighting wildland fires
3. Wildland firefighting hazards and safety

F319 Assuming Role of Company Officer

1. Company officer at incident scene
2. Company officer at fire station
3. Transition from firefighter to company officer

F320 Hazardous Materials Response - Operations

1. Role of fire department
2. Review of operations-level procedures
3. Discussion of possible incidents

F321 Firefighter Safety and Health

1. Discuss importance of safety and health and emphasize safe practices
2. Suggest ways to avoid disease and injury by maintaining a healthy
3. Discuss departmental safety programs

F322 Company Officer Legal Responsibilities & Liabilities

1. Describe legal responsibilities of company officer
2. Describe various situations that could lead to a liability issue
3. Explain how to avoid liability situations as a company officer

F323 Protection of Evidence of Fire Cause and Origin

1. Describe firefighter's role of protecting evidence at scene of a fire
2. Explain how to preserve evidence during suppression and overhaul
3. Discuss how to transfer scene to fire investigator

F324 Ground Ladders

1. Ways ground ladders are used
2. Proper handling and placement of ground ladders
3. Ground ladder inspection, maintenance, and testing

F325 Leading Groups

1. The role of a leader
2. The characteristics and dynamics of group interaction
3. Effectively leading a group versus managing a group

F326 Personal Protective Equipment

1. Describe the various types of PPE
2. Explain the maintenance procedures for maintaining PPE
3. List the various uses of PPE

F327 Respiratory Protection

1. Describe types of respiratory protection and maintenance of protection
2. Discuss various environments that respiratory protection should be worn
3. Explain proper method to fit test personnel for respiratory protection

F328 Combustible & Flammable Liquids

1. Define physical properties of combustible and flammable liquids
2. Distinguish between combustible and flammable liquids
3. Explore proper mitigation procedures for combustible and flammable liquids

F329 Ethics

1. Explain and define ethics
2. Discuss the importance of ethics on incident scenes
3. Discuss the importance of ethics in the fire station

F330 Automatic Suppression Systems

1. Describe the various automatic suppression systems
2. Discuss how to handle the activation of a suppression system
3. Describe how to troubleshoot a suppression system

F331 Airbags

1. Cover the hazards associated with working around airbags in vehicle emergencies
2. Describe how to deactivate airbags
3. Describe the proper procedures for working around airbags on the scene of vehicle emergencies

F332 Fire Behavior

1. Key points of determining fire behavior
2. How fire behavior influences firefighter safety
3. How fire behavior affects the efforts of fire suppression

"Excellent course. Our department will use this supplemental training with our newest update to Vehicle Operation Safety SOP. Keep up the great work!"

F333 Driving Safety

1. Describe the appropriate and safe response to emergencies
2. Discuss the importance of wearing restraint devices in emergency apparatus
3. Discuss how to reduce the number of emergency accidents

F334 Fire Investigation

1. Describe role of firefighter and company officer in fire investigation
2. Describe role of fire investigator
3. Explain fire investigation process

F335 Hoses & Fire Streams

1. Overview of fire streams
2. Overview of fireground hose lays
3. Overview of water delivery equipment maintenance

F336 Team Building

1. Describe various settings in which teams are effective
2. Discuss ways to build your team
3. Describe barriers to team function and ways to overcome them

F341 Firefighter Safety: Injuries and Fatalities

1. Discuss the historical scope of the firefighter injury and fatality problem
2. Describe the federal agencies that monitor, track, investigate and/or report on firefighter injuries and deaths
3. Describe the agencies or organizations that produce guidelines, training or regulations related to firefighting and firefighter safety
4. Discuss the most common causes of firefighter fatalities
5. Discuss the nature of the most common firefighter injuries

F342 Vacant Building Safety

1. Understand the particular hazards associated with fighting fires in vacant buildings
2. Learn the importance and components of pre-fire planning
3. Learn components of risk/benefit assessments on fire-involved buildings

F343 Cold Weather Operations

1. Discuss equipment preparation for cold weather operations
2. Explain maintaining engine operations in cold weather
3. Explore the effects of cold and ice on personal protective equipment
4. Discuss safe winter driving practices
5. Discuss cold weather rehab considerations

F344 Forcible Entry: Wood Doors

1. Review indications for forcible entry
2. Describe the investigation, equipment, and personnel for forcible entry
3. Explain safety considerations for rescue personnel making forcible entry
4. Review forcible entry techniques
5. Introduce training evolutions for practicing forcible entry skills

F345 Forcible Entry: Metal Doors

1. Review indications for forcible entry
2. Describe general principles for making forcible entry of metal doors
3. Explore safety considerations for rescue personnel when making forcible entry
4. Explain techniques for making forcible entry of metal doors
5. Introduce training evolutions for making forcible entry of metal doors

F346 Firefighter Performance Appraisals

1. Understand the importance of conducting an honest performance appraisal
2. Discuss when a performance appraisal is performed
3. Explore the benefits of a performance appraisal
4. Describe the concepts of conducting a good performance appraisal
5. Suggest the tools that may assist with the performance appraisal process.

F347 Portable Extinguishers: Types and Usage

1. Discuss reasons for fire extinguisher training
2. Differentiate fire class ratings
3. Identify types of portable fire extinguishers
4. Properly select and use extinguishers
5. Inspect fire extinguishers

F348 Class B Fire Fighting Foams

1. Learn different types of foam, foam systems and foam generating methods
2. Understand the different types of foam concentrates
3. Learn how to select, generate, and use foam

F349 Water Supply

1. Understand how to calculate minimum water supplies for fire suppression operations
2. Learn how to identify pressurized, non-pressurized and natural water
3. Discuss how to access water from various sources and deliver it to the fireground using mobile water supply apparatus

F350 Building Construction

1. Identify and differentiate the five types of building construction
2. Know how building construction types are affected by fire
3. Understand the specific hazards to firefighters in different building construction types and materials

F351 Fire Department Communications

1. Identify the communications responsibilities of all firefighters
2. Understand the functions of Public Safety Answering Points
3. Understand the elements of proper radio communications
4. Describe the purpose and content of an incident report

F352 Fire Prevention and Public Education

1. Identify common fire hazards in homes and businesses
2. Comprehend the differences between surveys, inspections and home fire safety surveys, and the importance of each
3. Identify why and how to create a fire prevention public education program

F353 Fire Alarm Systems

1. Assist firefighters in understanding the advantages of having alarm systems in occupancies
2. Describe the fundamental configuration and components of alarm systems
3. Discuss general principles for responding to alarms, which will ensure safety for the occupants and firefighters.

F354 Vehicle Extrication Safety

1. Identify the hazards of working on highways and roadways.
2. Learn how to accurately size-up an accident scene and make it as safe as possible for workers
3. Learn how to assess the need to extricate patients and safely accomplish extrications for various vehicle types

F355 Loss Control through Salvage and Overhaul

1. Explain the elements of planning for salvage operations
2. Describe the equipment and procedures for salvage operations
3. Describe how to safely conduct overhaul operations