



Airway

Emergency Medical Responder

- Discuss anatomy and physiology of the Respiratory System
- Describe symptoms of adequate and inadequate breathing
- Demonstrate level specific airway management techniques
 - Head-tilt-chin-lift
 - Jaw thrust
 - Oropharyngeal airway selection and placement
 - Nasopharyngeal airway selection and placement
 - Suctioning

Emergency Medical Technician

- All the above +
 - King LTS-D airway

Advanced EMT

- All the above +
 - Oral endotracheal intubation
 - Nasal endotracheal intubation
 - Digital endotracheal intubation
 - Needle cricothyrotomy

Paramedic

- All the above +
 - Surgical cricothyrotomy

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Continuing Education Objectives

Allergies, Poisonings, Overdose

Emergency Medical Responder

- Discuss pathophysiology of an allergic reaction
- Discuss signs and symptoms of a mild and severe allergic reaction
- Discuss interventions for a patient experiencing allergic reaction, poisoning, and overdose

Emergency Medical Technician

- All the above +
- Discuss indications and contraindications for the use of an Epi-Pen
- Demonstrate use of an Epi-Pen

Advanced EMT/Paramedic

- All the above +
- Discuss indications and contraindication for use of IV and SQ epinephrine
- Discuss indications and contraindication for use of naloxone (Narcan).

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Continuing Education Objectives

Behavioral Emergencies

Emergency Medical Responder

- Discuss ways to define and identify a patient experiencing a behavioral emergency.
- Discuss the importance of scene safety when dealing with a patient experiencing a behavioral emergency.
- Discuss general factors that may alter a patient's behavior
- Discuss risk factors for suicide
- Discuss Medical/Legal considerations

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above

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Bleeding and Shock; Soft Tissue Injuries

Emergency Medical Responder

- Discuss the relationship of BSI and bleeding.
- Identify arterial, venous, and capillary bleeding.
- Discuss emergency care of external bleeding.
- Demonstrate
 - Direct pressure
 - Pressure points
 - Elevation
 - Tourniquets
- Discuss signs and symptoms of internal bleeding.
- Discuss treatment of internal bleeding.

Emergency Medical Technician

- All the above +
- Discuss signs and symptoms of shock (hypoperfusion).
- Discuss signs and symptoms of superficial, partial thickness, and full thickness burns.
- Discuss emergency care of superficial, partial thickness, and full thickness burns.
- Discuss rule of nines to determine body surface area related to burns.

Advanced EMT/Paramedic

- All the above +
- Discuss fluid administration for treatment of burns.
- Discuss pharmacologic interventions for pain management in a burn patient.

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Continuing Education Objectives

Blood Borne Pathogens, OSHA 29 CFR 1910.1030

Below is an excerpt from the OSHA standards. It can be found in its entirety at:

www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10051

All Levels

1910.1030(g)(2)(vii)

- The training program shall contain at a minimum the following elements:

1910.1030(g)(2)(vii)(A)

- An accessible copy of the regulatory text of this standard [29 CFR 1910.1030] and an explanation of its contents;

1910.1030(g)(2)(vii)(B)

- A general explanation of the epidemiology and symptoms of blood borne diseases;

1910.1030(g)(2)(vii)(C)

- An explanation of the modes of transmission of blood borne pathogens;

1910.1030(g)(2)(vii)(D)

- An explanation of the employer's exposure control plan and the means by which the employee can obtain a copy of the written plan;

1910.1030(g)(2)(vii)(E)

- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials;

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Continuing Education Objectives

Burns

Emergency Medical Responder

- Obtain a complete history with mechanism of injury
- Perform the primary survey and appropriate treatment of a burn patient
- Describe the goals of pre-hospital treatment of thermal injuries
- Describe the thermal injury process
- Identify the different levels of thermal injury

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above +
- Complete a Parkland resuscitation formula

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Continuing Education Objectives

Cardiac Emergencies

Emergency Medical Responder

- Discuss anatomy and physiology of the circulatory system.
- Discuss signs and symptoms of a patient experiencing a cardiac emergency.
- Discuss interventions for a patient experiencing a cardiac emergency.
- Discuss the importance of oxygen administration.

Emergency Medical Technician

- All the above +
- Discuss the desired effect, indications and contraindications for the use of baby aspirin.
- Describe the procedure for administration of baby aspirin.
- Discuss the desired effect, indications and contraindications for the use of nitroglycerin.
- Describe the procedure for administration of nitroglycerin.

Advanced EMT/Paramedic

- All the above +
- Demonstrate ECG interpretation skills.
- Discuss pharmacologic interventions specific to ECG and patient symptoms.

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Continuing Education Objectives

CPR Recertification

Emergency Medical Responder

- Attend an approved American Heart Association or American Red Cross CPR course for Health Care Providers.
 - Demonstrate 1 person and 2 person CPR for adult, child and infant patients.
 - Demonstrate foreign body airway obstruction techniques for adult, child and infant patients.
 - Demonstrate the use of an automated external defibrillator.

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above

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Diabetes, Altered Level of Consciousness

Emergency Medical Responder

- Discuss pathophysiology of hyper- and hypoglycemia.
- Discuss the signs and symptoms of hyper- and hypoglycemia.
- Discuss other medical conditions which could result in an altered level of consciousness.
- Discuss the importance of oxygen administration in a patient with an altered level of consciousness.

Emergency Medical Technician

- All the above +
- Discuss emergency care for a patient experiencing seizures.
- Discuss the desired effect, indications and contraindications for the use of oral glucose.
- Describe the procedure for administration of oral glucose.
- Discuss the desired effect, indications and contraindications for the use of glucagon.
- Describe the procedure for administration of glucagon.

Advanced EMT/Paramedic

- All the above +
- Discuss the desired effect, indications and contraindications for the use of D50.
- Describe the procedure for administration of D50.
- Discuss the desired effect, indications and contraindications for the use of Versed.
- Describe the procedure for administration of Versed.
- Discuss the desired effect, indications and contraindications for the use of Valium.
- Describe the procedure for administration of Valium.

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Environmental & Behavioral Emergencies

Emergency Medical Responder

- Discuss physiology of normal body temperature regulation.
- Discuss signs and symptoms of a patient experiencing hyper- and hypothermia.
- Discuss interventions for a patient experiencing hyper- and hypothermia.
- Discuss ways to define and identify a patient experiencing a behavioral emergency.
- Discuss the importance of scene safety when dealing with a patient experiencing a behavioral emergency.

Emergency Medical Technician

- All the above +
- Differentiate between mild, moderate, and severe hypothermia.
- Differentiate between heat cramps, heat exhaustion, and heat stroke.

Advanced EMT/Paramedic

- All the above +
- Discuss use of fluids in the treatment of heat emergencies.

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Continuing Education Objectives

Farm Rescue and Extrication

All Levels:

- Reduce mortality, injury, and property loss of agricultural workers and rescuers.
- Encourage team building of fire/rescue and EMS personnel through side-by-side training.
- Equip departments with the tools for pre-planning for agricultural emergencies.
- Educate students about the types of resources necessary and available for each extrication type.
- Educate students in patient care including injuries and complications, difficulties in treatment, and patient packaging.
- Assist students in developing problem solving skills for both extrication and patient care.
- Ensure scene safety and give students the ability to identify, control, or negate hazards.

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Continuing Education Objectives

Geriatrics

All Levels:

- Identify the general decline in organ systems
- Define normal psychological changes affecting older people
- Define verbal and nonverbal communication strategies to overcome potential sensory, language, and cognitive limitations in older adults
- Assess specific risks and barriers to older adult safety, including falls, elder mistreatment
- Discuss medications that may affect assessment
- Compare the assessment of the older patient with that of a younger patient

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Continuing Education Objectives

ICUP

(Instructor Certification and Update Program)

All Levels

- Review learning objectives of EMS topics in the ICUP packet
- Discuss how to use lesson plans
- Discuss any updates in treatments per the OSFNIEMS SMO's
- Test participants on illnesses/injuries and treatments. This is a written exam and they must achieve a minimum of 80%.

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Injuries to the Head and Spine

Emergency Medical Responder

- Identify patients with potential head and spine injuries in relation to mechanism of injury.
- Discuss signs and symptoms of a patient with a head and/or spine injury.
- Demonstrate appropriate precautions and interventions for caring for a patient with a head and/or spine injury.

Emergency Medical Technician

- All the above +
- Discuss the rationale for mild hyperventilation of the head injury patient.
- Demonstrate spinal immobilization of a supine patient.
- Demonstrate spinal immobilization of a seated patient.
- Demonstrate spinal immobilization of a standing patient.
- Discuss indications to remove or not remove a helmet.
- Demonstrate steps for proper helmet removal.

Advanced EMT/Paramedic

- All the above +
- Discuss fluid administration to maintain SBP 90-100.

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Medical, Legal, Ethical Considerations; Communication; Documentation

Emergency Medical Responder

- Discuss Scope of Practice
- Discuss Standard of Care.
- Discuss consent.
 - Informed/expressed.
 - Implied.
 - Minor.
 - Mentally incompetent adult.
- Discuss negligence.
 - Duty to act.
 - Failure to act.
 - Injury/damages.
 - Causation/proximate cause.
- Discuss abandonment.
- Discuss the importance of effective communication.
 - Provider and patient
 - Provider and other EMS personnel
 - Provider and Medical Control
- Discuss the importance of thorough and accurate documentation.

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above

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Continuing Education Objectives

Medical Patient Assessment

Emergency Medical Responder

- Discuss the importance of and steps of Scene Size-up.
- Discuss the indication for and steps of an Initial Assessment.
- Discuss the indication for and steps of a Focused History and Physical Exam.
- Discuss the indication for and steps of an Ongoing Assessment.
- Demonstrate assessment of a conscious medical patient.
- Demonstrate assessment of on unconscious medical patient.

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above

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Musculoskeletal Injuries

Emergency Medical Responder

- Discuss anatomy and physiology of the musculoskeletal system.
- Demonstrate the assessment of a painful, swollen, deformed extremity.
- Demonstrate management of a painful, swollen, deformed extremity.

Emergency Medical Technician

- All the above +
- Discuss the importance of assessing pulse, motor, and sensation before and after applying a splint.
- Demonstrate application of splints for various extremity injuries.
 - Upper extremity
 - Lower extremity
 - Femur (traction splint)

Advanced EMT/Paramedic

- All the above +
- Discuss pharmacologic interventions for pain management.

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Obstetrics; Gynecologic Emergencies

Emergency Medical Responder

- Discuss the anatomy of the female reproductive system.
- Discuss the indications of eminent delivery.
- Discuss the steps of assisting with a delivery.
- Discuss the steps of caring for a newborn.
- Discuss possible complications and emergencies.

Emergency Medical Technician

- All the above +
- Review the contents of an OB Kit.
- Discuss procedures for dealing with OB emergencies.
 - Breech delivery
 - Limb presentation
 - Prolapsed cord
 - Excessive postpartum bleeding
- Discuss steps in neonatal resuscitation.
- Discuss pre-delivery emergencies
 - Abruptio placenta
 - Placenta previa
- Discuss gynecologic emergencies not related to pregnancy.

Advanced EMT/Paramedic

- All the above +
- Discuss fluid intervention for neonate and post-partum mom.
- Discuss advanced interventions for neonatal resuscitation.

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Continuing Education Objectives

Pediatrics

Emergency Medical Responder

- Discuss differences in anatomy and physiology of the adult and pediatric patient.
- Discuss common pediatric medical emergencies and their treatments.
- Demonstrate assessment strategies for the pediatric patient.
- Discuss the signs and symptoms of possible abuse and neglect.
- Discuss required reporting of abuse and neglect.

Emergency Medical Technician

- All the above +
- Discuss considerations for packaging a pediatric trauma patient
- Discuss common pediatric respiratory illnesses and treatments

Advanced EMT/Paramedic

- All the above +
- Demonstrate endotracheal intubation procedures in infants and children.
- Demonstrate appropriate technique for insertion of peripheral intravenous catheters for infants and children.
- Demonstrate appropriate technique for insertion of an intraosseous line for infants and children.

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Skills Validation

Emergency Medical Responder

- n/a

Emergency Medical Technician

- Demonstrate placement of a King LTS-D airway.
- Demonstrate use of an Automated External Defibrillator.
- Demonstrate medication administration.
 - Albuterol nebulizer
 - Epi-Pen
 - Glucagon IM Injection
 - MAD (Mucosal Atomization Device)

Advanced EMT

- All the above +
- Demonstrate placement of an endotracheal airway.
- Demonstrate chest decompression
- Demonstrate needle cricothyrotomy
- Demonstrate intraosseous needle placement

Paramedic

- All the above +
- Demonstrate surgical cricothyrotomy

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Continuing Education Objectives

Street Drug Awareness

All Levels:

- Differentiate between drug misuse, drug abuse, and drug interaction.
- Discuss common street drugs and their street names
- Compare and contrast physical and psychological dependency.
- Describe the physical, psychological, and social impact of the more commonly abused substances.
- Discuss treatment plans for patients under the influence
- Discuss the specific effects of alcohol on sensory and motor function and relate these effects to an individual's ability to operate a vehicle.
- Discuss factors that influence decision making and behavior.
- Explain the impact that drugs have on decision-making ability and possible resulting consequences.
- Demonstrate communication techniques that support responsible decision making.
- Identify personal responsibility in making decisions to promote and maintain health.
- Identify causes of stress and discuss examples of managing stress in a healthy manner.

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Stroke

Emergency Medical Responder

- Discuss the 2 types of stroke
- Discuss signs and symptoms
- Discuss and demonstrate the proper assessment of a stroke patient
 - Use of the “Cincinnati Stroke Scale”
- Discuss differential diagnosis for altered mental status
 - Blood glucose check
- Discuss gaining a proper history
 - Onset of symptoms
 - Last time patient was seen normal
- Discuss what should be included for proper documentation
- Discuss what should be included in the inbound radio report to receiving hospital
- Discuss proper management of the stroke patient and review of SMO

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above



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Continuing Education Objectives

Trauma Patient Assessment

Emergency Medical Responder

- Discuss the importance of and steps of Scene Size-up.
- Discuss the indication for and steps of an Initial Assessment.
- Discuss the indication for and steps of a Focused Trauma Assessment.
- Discuss the indication for and steps of a Rapid Trauma Assessment.
- Discuss the indication for and steps of a Detailed Trauma Assessment
- Discuss the indication for and steps of an Ongoing Assessment.
- Demonstrate assessment of a conscious trauma patient.
- Demonstrate assessment of an unconscious trauma patient.

Emergency Medical Technician

- All the above

Advanced EMT/Paramedic

- All the above

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