EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

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Each objective is followed by an objective type and level identifier, e.g. "C-1."

C    Cognitive
A    Affective
P    Psychomotor

The numbers following the objective indicate the level of mastery required.

1    Knowledge
2    Application
3    Problem solving.
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 1: Preparatory

Lesson 1-1 INTRODUCTION TO EMS SYSTEMS:  1 hour

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:
1-1.1  Define the components of Emergency Medical Services (EMS) systems. (C-1)
1-1.2  Differentiate the roles and responsibilities of the ETT from other pre-hospital care providers. (C-3)
1-1.3  Define medical oversight and discuss the ETT’s role in the process. (C-1)
1-1.4  Recall the Alaska statutes and regulations regarding the EMS system. (C-1)
1-1.5  Accept and uphold the responsibilities of an ETT in accordance with the standards of an EMS professional.  (A-3)
1-1.6  Explain the rationale for maintaining a professional appearance when on duty or when responding to calls.  (A-3)
1-1.7  Describe why it is inappropriate to judge a patient based on a cultural, gender, age, or socioeconomic model, and to vary the standard of care rendered as a result of that judgment.  (A-3)

Psychomotor Objectives:
No psychomotor objectives identified.

Lesson 1-2 THE WELL-BEING OF THE ETT:  1.5 hours

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:
1-2.1  List possible emotional reactions the ETT may experience when faced with trauma, illness, death and dying.  (C-1)
1-2.2  Discuss the possible reactions that a family member may exhibit when confronted with death and dying.  (C-1)
1-2.3  Recognize the signs and symptoms of critical incident stress.  (C-1)
1-2.4  State possible steps that the ETT may take to help reduce/alleviate stress.  (C-1)
1-2.5  Explain the need to determine scene safety.  (C-2)
1-2.6  Discuss the importance of body substance isolation (BSI).  (C-1)
1-2.7  Describe the steps the ETT should take for personal protection from airborne and blood borne pathogens. (C-2)
1-2.8  Explain the importance for serving as an advocate for the use of appropriate protective equipment.  (A-3)
1-2.9  State the steps the ETT will take if exposed to airborne or blood borne pathogens.  (C-1)

Psychomotor Objectives:
1-2.10  Demonstrate the use of appropriate personal protective equipment when given a scenario. (P-2)
1-2.11  Demonstrate correct handwashing technique. (P-2)
Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

1-3.1 Recall the ETT scope of practice. (C-1)
1-3.2 Discuss the steps the ETT will take if a patient is identified as being enrolled in Comfort One. (C-1)
1-3.3 Define the term “advance directives”. (C-1)
1-3.4 Define consent and discuss the methods of obtaining consent. (C-3)
1-3.5 Differentiate between expressed and implied consent. (C-3)
1-3.6 Explain consent regarding minors. (C-3)
1-3.7 Discuss the implications for the ETT in patient refusal of transport. (C-1)
1-3.8 Discuss abandonment, negligence, and assault and their implications to the ETT. (C-1)
1-3.9 Explain the importance, necessity and legality of patient confidentiality. (C-1)
1-3.10 List the actions that an ETT should take to assist in the preservation of a crime scene. (C-3)
1-3.11 Discuss the importance of documentation. (C-1)
1-3.12 List the injuries and suspicions which must be reported in Alaska; the time frames, format for reporting, and to whom the reports must be made. (C-1)

Psychomotor Objectives:

1-3.13 Demonstrate a verbal report given to; another provider, a receiving facility, and medical control. (P-2)
1-3.14 Demonstrate written documentation for a given scenario. (P-2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 1-4 THE HUMAN BODY: 3 hours

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:

1-4.1 Define the following topographic terms: (C-1)
- Distal
- Proximal
- Anterior
- Posterior
- Midline
- Right
- Left
- Bilateral
- Medial
- Lateral
- Superior
- Inferior

1-4.2 Describe the basic anatomy and function of the following major body systems: (C-1)
- Respiratory
- Circulatory
- Musculoskeletal
- Nervous
- Digestive

Psychomotor Objectives:
No psychomotor objectives identified.
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 1-5. LIFTING AND MOVING PATIENTS: 4 hours

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:

1-5.1 Discuss the guidelines and safety precautions that need to be followed when lifting a patient. (C-1)
1-5.2 Describe the indications for an emergency move. (C-1)
1-5.3 Explain the rationale for an emergency move. (A-3)
1-5.4 Describe the indications for assisting in non-emergency moves. (C-1)
1-5.5 Discuss the various devices associated with moving a patient in the pre-hospital setting. (C-1)

Psychomotor Objectives:

1-5.6 Demonstrate an emergency move. (P-1,2)
1-5.7 Demonstrate a non-emergency move. (P-1,2)
1-5.8 Demonstrate the use of equipment available to move a patient. (P-1,2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 2: Airway:

Lesson 2-1  AIRWAY:  4 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

2-1.1 Name and label the major structures of the respiratory system on a diagram. (C-1)
2-1.2 List the signs of adequate breathing. (C-1)
2-1.3 List the signs of inadequate breathing. (C-1)
2-1.4 Relate mechanism of injury to opening the airway. (C-3)
2-1.5 Describe how ventilating an infant or child is different from an adult. (C-1)
2-1.6 Explain why ventilation and airway skills are a priority. (C-3)
2-1.7 State the need to have a suction unit ready for immediate use. (C-1)
2-1.8 Describe the techniques of suctioning. (C-1)
2-1.9 Describe ventilating a patient with a bag-valve-mask. (C-1)
2-1.10 Describe the signs of adequate ventilation using the bag-valve-mask. (C-1)
2-1.11 Describe the signs of inadequate ventilation using the bag-valve-mask. (C-1)

Optional Objectives:

2-1.12 Describe how to measure and insert an oropharyngeal (oral) airway. (C-1)
2-1.13 Describe how to measure and insert a nasopharyngeal (nasal) airway. (C-1)
2-1.14 Describe ventilating a patient with a flow restricted, oxygen powered ventilation device. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

2-1.15 Demonstrate the head-tilt, chin-lift. (P-1,2)
2-1.16 Demonstrate the jaw thrust. (P-1,2)
2-1.17 Demonstrate how to use a resuscitation mask to ventilate a patient. (P-1,2)
2-1.18 Demonstrate how to ventilate infant and child patients. (P-1,2)
2-1.19 Demonstrate how to clear a foreign body airway obstruction in a responsive adult, child and infant. (P-1)
2-1.20 Demonstrate how to clear a foreign body airway obstruction in an unresponsive adult, child and infant. (P-1)
2-1.21 Demonstrate the techniques of suctioning. (P-1,2)
2-1.22 Assemble a bag-valve-mask device. (P-1,2)
2-1.23 Demonstrate ventilating a patient with a bag-valve-mask. (P-1,2)

Optional Objectives:

2-1.24 Demonstrate how to measure and insert an oropharyngeal (oral) airway. (P-1,2)
2-1.25 Demonstrate how to measure and insert a nasopharyngeal (nasal) airway. (P-1,2)
2-1.26 Demonstrate artificial ventilation of a patient with a flow restricted, oxygen powered ventilation device. (P-1,2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 3: Cardiopulmonary Resuscitation

Lesson 3-1: CARDIOPULMONARY RESUSCITATION: 4 hours

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:

3-1.1 List reasons for the heart to stop beating. (C-1)
3-1.2 Define cardiopulmonary resuscitation (CPR). (C-1)
3-1.3 Describe the chain of survival and how it relates to the EMS system. (C-1)
3-1.4 Explain when the ETT is able to stop CPR. (C-1)
3-1.5 Discuss the use of an automated external defibrillator. (C-2)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:

3-1.6 Demonstrate one-rescuer and two-rescuer, adult, child, and infant CPR. (P-1,2)
3-1.7 Demonstrate the use of an automated external defibrillator. (P-2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 4: Patient Assessment

Lesson 4-1: PATIENT ASSESSMENT: 8 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

4-1.1 Discuss the scene size up. (C-1)
4-1.2 Discuss the initial assessment. (C-1)
   - Reasons for forming a general impression of a patient
   - Assessing mental status using the AVPU mnemonic
   - Assessing the airway
   - Assessing the breathing status as adequate or inadequate
   - Feeling a pulse in an adult, child and infant
   - Examining for external bleeding
   - Assessing skin color, temperature, condition
   - Prioritizing a patient for care and transport
4-1.3 Describe measuring and recording breathing, pulse, and blood pressure by auscultation and palpation. (C-2)
4-1.4 Discuss the history and physical exam. (C-1)
   - Focused versus Detailed exam
   - Using the SAMPLE and OPQRST memory aids
   - Additional questions that may be asked during the physical exam
4-1.5 Discuss the on-going assessment. (C-1)
4-1.6 Describe the ETT “hand-off” report. (C-1)
4-1.7 Demonstrate a caring attitude towards any patient with illness or injury who request emergency medical services (A-3)
4-1.8 Participate willingly in the care of all patients. (A-3)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

4-1.9 Demonstrate the scene size up. (P-1,2)
4-1.10 Demonstrate the initial assessment. (P-1,2)
4-1.11 Demonstrate the focused and detailed physical exam. (P-1,2)
4-1.12 Demonstrate the SAMPLE and OPQRST history. (P-1,2)
4-1.13 Demonstrate measuring and recording vital signs:
   - breathing
   - pulse
   - blood pressure by auscultation and palpation
4-1.14 Demonstrate the on-going assessment. (P-1,2)
4-1.15 Demonstrate documentation of patient information. (P-1,2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 5: Trauma

Lesson 5-1 BLEEDING AND SOFT TISSUE INJURIES: 2 hours

Cognitive Objectives:
At the completion of this lesson, the ETT will be able to:

5-1.1 Review the function of the circulatory system. (C-1)
5-1.2 Differentiate between severe, moderate and minor bleeding. (C-3)
5-1.3 Recall the emergency care for external bleeding. (C-1)
5-1.4 Describe the emergency medical care of a patient with: (C-2)
   -a open wound
   -a penetrating chest injury
   -an open wound to the abdomen
   -an impaled object
   -an amputation
   -burns
5-1.5 List the functions of dressing and bandaging. (C-1)
5-1.6 List the signs and symptoms of internal bleeding. (C-1)
5-1.7 Describe the care of a patient with internal bleeding. (C-1)
5-1.8 Given scenarios involving injuries in this section, explain how patient management priorities and transport decisions are determined. (C-3)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:

5-1.9 Demonstrate the following methods to control external bleeding. (P-1,2)
   -direct pressure
   -elevation
   -pressure dressings
   -tourniquet
5-1.10 Demonstrate care for a patient with: (p-1,2)
   -soft tissue injuries
   -an open chest wound
   -open abdominal wounds
   -an impaled object
   -an amputation/amputated part
   -burns
5-1.11 Demonstrate the care of the patient with internal bleeding. (P-1,2)
Lesson 5-2  SHOCK:  1 hour

Cognitive Objectives:
At the completion of this lesson, the ETT will be able to:
5-2.1 Define shock. (C-1)
5-2.2 List the signs and symptoms of shock (hypoperfusion). (C-1)
5-2.3 List the types of shock:
   - volume
   - cardiac
   - vascular
      - anaphylactic
      - septic
      - neurogenic

Psychomotor Objectives:
At the completion of this lesson, the ETT will be able to:
5-2.4 Demonstrate the care of the patient showing signs and symptoms of each kind of shock (P-1,2)
   - volume
   - cardiac
   - vascular
      - anaphylactic
      - septic
      - neurogenic
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 5-3  INJURIES TO MUSCLES AND BONES:  3 hours

Cognitive Objectives:
At the completion of this lesson, the ETT will be able to:

5-3.1  Review the function of the musculoskeletal system. (C-1)
5-3.2  Define “fracture” and “dislocation”. (C-1)
5-3.3  List signs and symptoms of an open and a closed fracture. (C-1)
5-3.4  Discuss care for a patient with an injured extremity. (C-1)
5-3.5  Relate mechanism of injury to potential injuries of the head and spine. (C-3)
5-3.6  State the signs and symptoms of a head injury. (C-1)
5-3.7  Describe the emergency medical care for head injuries. (C-1)
5-3.8  State the signs and symptoms of a potential spine injury. (C-1)
5-3.9  Describe the method of assessing a responsive patient who may have a spine injury. (C-1)
5-3.10 Describe the care of a patient with pelvic injury. (C-1)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:

5-3.11 Demonstrate the emergency care of a patient with a possible fracture. (P-1,2)
5-3.12 Demonstrate opening the airway in a patient with a suspected spinal cord injury. (P-1,2)
5-3.13 Demonstrate evaluating a responsive patient with a suspected spinal cord injury. (P-1,2)
5-3.14 Demonstrate stabilization of the cervical spine. (P-1,2)
5-3.15 Demonstrate the application of a cervical collar. (P-1,2)
5-3.16 Demonstrate immobilization of a patient, per the Alaska State Skill Sheets for Supine Spinal Immobilization. (P-1,2)
5-3.17 Demonstrate the immobilization of a patient, per the Alaska State Skill Sheets for Seated Spinal Immobilization. (P-1,2)
5-3.18 Demonstrate the application of a sling and swathe bandage. (P-1,2)

Optional Objectives:
5-3.19 Demonstrate the use of the Traction Splint for the immobilization of femur fracture per the Alaska State Skill Sheets. (P-1,2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 6: Medical Emergencies

Lesson 6  MEDICAL EMERGENCIES:  3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

6-1.1  Identify the patient who presents with: (C-1)
   -a general medical complaint
   -complaint of altered mental status
   -complaint of seizures
   -shortness of breath

6-1.2  Describe the steps in providing emergency medical care to a patient with: (C-1)
   -a general medical complaint
   -complaint of altered mental status
   -complaint of seizures
   -shortness of breath

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

6-1.3  Demonstrate the assessment of a patient with: (P-1,2)
   -a general medical complaint
   -complaint of altered mental status
   -complaint of seizures
   -shortness of breath

6-1.4  Demonstrate the steps in providing emergency medical care to a patient with:
   (P-1,2)
   -a general medical complaint
   -complaint of altered mental status
   -complaint of seizures
   -shortness of breath
Module 7: Pediatrics

Lesson 7-1  PEDIATRICS:  1 hour

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:
7-1.1 List assessment considerations for a child. (C-1)
7-1.2 Identify the major airway differences in infants and children. (C-1)
7-1.3 Describe the differences in the assessment of “croup” and “epiglottitis” in infants and children. (C-1)
7-1.4 State the special considerations for transporting infants and children. (C-1)

Psychomotor Objectives:
7-1.5 Demonstrate a pediatric patient assessment.
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 8: Environmental Emergencies

Lesson 8-1  ENVIRONMENTAL EMERGENCIES:  3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

8-1.1  Identify the patient who presents with: (C-1)
   - hypothermia
   - cold water near drowning
   - frostbite
   - heat exhaustion
   - heat stroke

8-1.2  Explain the steps in assessing patients with: (C-1)
   - hypothermia
   - cold water near drowning
   - frostbite
   - heat exhaustion
   - heat stroke

8-1.3  Describe the treatment of patients with: (C-2)
   - mild hypothermia
   - severe hypothermia
   - cold water near drowning
   - frostbite
   - heat exhaustion
   - heat stroke

Psychomotor Objectives:

8-1.4  Demonstrate the treatment of patients with: (P-2)
   - mild hypothermia
   - severe hypothermia
   - cold water near drowning
   - frostbite
   - heat exhaustion
   - heat stroke
Module 9: Childbirth - optional

Lesson 9-1 CHILDBIRTH:

NOTE: This is an optional topic for Alaska ETT courses

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:

9-2.1 Identify the following structures: Uterus, birth canal, placenta, umbilical cord, amniotic sac. (C-1)
9-2.2 Define the following terms: Crowning, bloody show, labor, abortion. (C-1)
9-2.3 State the indications of an imminent delivery. (C-1)
9-2.4 State the steps in the pre-deliver preparation of the mother. (C-1)
9-2.5 State the steps to assist in the delivery. (C-1)
9-2.6 State the steps in the delivery of the placenta. (C-1)
9-2.7 State the steps in the emergency care of the mother post-delivery. (C-1)
9-2.8 State the steps in caring for a newborn. (C-1)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:

9-2.9 Demonstrate the steps to assist in a normal delivery. (P-1,2)
9-2.10 Demonstrate the steps in the delivery of the placenta. (P-1,2)
9-2.11 Demonstrate the care of the newborn. (P-1,2)
9-2.12 Demonstrate the post-delivery care of the mother. (P-1,2)
Module 10: EMS Operations - optional

NOTE: This is an optional module for Alaska ETT Courses.

Lesson 10-1 EMS OPERATIONS:

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:

10-1.1 Discuss the medical and non-medical equipment needed to respond to a call. (C-1)
10-1.2 Explain the rationale for having the equipment and/or unit prepared to respond. (A-3)
10-1.3 List the phases of a pre-hospital call. (C-1)
10-1.4 Discuss the role of the ETT in extrication. (C-1)
10-1.5 List various methods of gaining access to the patient. (C-1)
10-1.6 List the personal protective equipment necessary for each of the following situations: (C-1)
   - hazardous materials
   - rescue operations
   - violent scenes
   - crime scenes
   - electricity
   - water and ice
10-1.7 State the role of the ETT until appropriately trained personnel arrive at the scene of a hazardous materials situation. (C-1)
10-1.8 Describe the criteria for a multiple casualty situation. (C-1)
10-1.9 Summarize the components of basic triage. (C-1)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:

10-1.10 Given a scenario of a mass casualty incident, perform triage. (P-2)
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 11: Pneumatic Anti Shock Garments (PASG) - optional

NOTE: This is an optional module for Alaska ETT Courses.

Lesson 11-1  PNEUMATIC ANTI SHOCK GARMENT (PASG):

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

11-1.1 Describe the use for PASG per the Alaska PASG guidelines. (C-1)
11-1.2 Describe the contraindications for the use of the PASG. (C-1)
11-1.3 Describe the application of the PASG. (C-1)
   - with spinal precautions
   - without spinal precautions
11-1.4 Describe the circumstances under which the PASG may be removed from a patient. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

11-1.5 Demonstrate the application of the PASG: (P-1,2)
   - with spinal precautions
   - without spinal precautions.
EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 12: Oxygen - optional

NOTE: This is an optional module for Alaska ETT courses.

Lesson 12-1 OXYGEN:

Cognitive Objectives:
At the completion of this lesson, the ETT student will be able to:
12-1.1 Define the components of an oxygen delivery system. (C-1)
12-1.2 List the indications for free flow oxygen. (C-1)

Psychomotor Objectives:
At the completion of this lesson, the ETT student will be able to:
12-1.3 Demonstrate the correct operation of oxygen tanks and regulators. (P-1,2)
12-1.4 Demonstrate the process of initiating, administering and discontinuing free flow oxygen. (P-1,2)
12-1.5 Demonstrate the use of a non-rebreather face mask and state the flow requirements needed for its use. (P-1,2)
12-1.6 Demonstrate the use of a nasal cannula and state the flow requirements needed for its use. (P-1,2)