



Office of Emergency Medical  
Services and Trauma

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PAGES	4
LEVEL	CT

**Scope of Practice for: Cardiac Technician ONLY**

Emergency Medical Personnel are permitted to perform only those skills listed under their licensure level, and only once they have been trained on those skills, and credentialed to perform those skills by the agency Medical Director. Emergency Medical Personnel are permitted to administer only medications listed under their licensure level, and only once they are trained in the pharmacology of that medication, and credentialed to administer that medication by the EMS agency Medical Director.

**NOTE: If a skill is listed on this document, then the Cardiac Technician is permitted to perform the skill. Interpretive guidelines serve to clarify and/or modify the skill listed. Gaps in numbering/lettering (i.e. going from 1 to 3) on a skill group mean that the unlisted skill is not permitted at the Cardiac Technician level.**

Airway and Breathing Skills			Interpretive Guidelines
1.	Supplemental oxygen therapy		
a.	Oxygen delivery devices	CT	This would include any type of cannula or mask designed for the delivery of supplemental oxygen.
b.	Humidified oxygen	CT	
2.	Basic airway management		
a.	Manual maneuvers to open and control the airway	CT	This would include procedures such as: head-tilt, chin-lift; tongue-jaw lift; modified chin lift; jaw thrust; Sellick's maneuver.
b.	Manual maneuvers to remove an airway obstruction	CT	
c.	Insertion of airway adjuncts intended to go into the oropharynx	CT	
d.	Insertion of airway adjuncts intended to go into the nasopharynx	CT	
3.	Ventilation management		
a.	mouth to barrier devices	CT	
b.	bag-valve-mask	CT	
c.	manually triggered ventilators	CT	
d.	automatic transport ventilators	CT	
e.	chronic-use home ventilators	CT	

Airway and Breathing Skills		Interpretive Guidelines
4.	Suctioning	
	a. Upper airway suctioning	CT
	b. Tracheobronchial suctioning	CT
5.	Advanced airway management	
	a. CPAP/BiPAP administration and management	CT
	b. BIAD (Blind Insertion Airway Device) Insertion	CT <i>This would also permit the removal of a BIAD under medically appropriate circumstances for the specified levels.</i>
	c. Endotracheal intubation	CT <i>This includes nasal and oral endotracheal intubation. This would also allow the CT or Paramedic to extubate the patient for medically necessary reasons. This would include the use of PEEP and EtCO2/Capnography as necessary.</i>
	d. Airway obstruction removal by direct laryngoscopy	CT

Assessment Skills		Interpretive Guidelines
1.	Basic assessment skills	
	a. Perform simple patient assessments	CT
	b. Perform comprehensive patient assessments	CT
	c. Obtaining vital signs manually	CT <i>Includes the use of a manual BP cuff.</i>
2.	Advanced assessment skills	
	a. Obtaining vital signs with electronic devices	CT <i>This would include the use of non-Invasive blood pressure monitoring devices, as well as pulse oximetry measurement and blood glucose monitoring.</i>

Pharmacological Intervention Skills		Interpretive Guidelines
1.	Fundamental pharmacological skills	
	a. Use of unit dose commercially pre-filled containers or auto-injectors for the administration of life saving medications intended for self, peer, or patient rescue in hazardous materials situations	CT
	b. Assist patients in taking their own prescribed medications as approved by medical direction	CT
	c. Administration of over-the-counter medications with appropriate medical direction	CT <i>Includes oral glucose for hypoglycemia and aspirin for chest pain of suspected ischemic origin.</i>

Pharmacological Intervention Skills		Interpretive Guidelines
2.	Advanced pharmacological skills: venipuncture/vascular access	
a.	Obtaining peripheral venous blood specimens	CT <i>This is either through direct venipuncture or through an existing peripheral IV catheter.</i>
b.	Peripheral IV insertion and maintenance (includes removal as needed)	CT <i>This includes placement of an INT/Saline lock. Peripheral lines include external jugular veins, but does not include placement of umbilical catheters.</i>
c.	Intraosseus device insertion (includes removal as needed)	CT <i>This includes placement in both adult and pediatric patients. This also includes both manual and mechanically assisted devices as approved by the local EMS medical director.</i>
d.	Access indwelling catheters and implanted central IV ports for fluid and medication administration.	CT
e.	Central line monitoring	CT
3.	Administration of medications/fluids	
a.	Crystalloid IV solutions	CT <i>This includes hypotonic, isotonic, and hypertonic solutions as approved by medical direction. This also includes combination solutions (i.e. D5LR, D5NS, etc.).</i>
b.	Administration of hypertonic dextrose solutions for hypoglycemia	CT <i>Hypertonic dextrose solutions may be given IV/IO.</i>
c.	Administration of glucagon for hypoglycemia	CT <i>Glucagon may be administered via IM, SC, IV, IO or intranasal routes as approved by the local EMS medical director.</i>
d.	Administration of SL nitroglycerine to a patient experiencing chest pain of suspected ischemic origin	CT
e.	Parenteral administration of epinephrine for anaphylaxis	CT
f.	Inhaled (nebulized) medications to patients with difficulty breathing and/or wheezing	CT <i>Inhaled (nebulized) means atomization of the medication through an oxygen/air delivery device with a medication chamber, or through use of a metered-dose inhaler.</i>
g.	Administration of a narcotic antagonist to a patient suspected of narcotic overdose	CT <i>Administration may be via IM, SC, IV, IO, or Intranasal routes as approved by the local EMS medical director.</i>
h.	Administration of nitrous oxide (50% nitrous oxide, 50% oxygen mix) for pain relief	CT
i.	Vaccine administration	CT* <i>EMT-Is, AEMTs and CTs are allowed to administer vaccinations only during designated events such as mass vaccination clinics or in the event of a declared public health emergency, and only after training through an OEMST training course.</i>
k.	Administration of other physician approved medications	CT* <i>CTs are only permitted to give the following: anti-arrhythmics, vagolytic agents, chronotropic agents, alkalizing agents, analgesic agents, and vasopressor agents.</i>

Cardiac/Medical Skills		Interpretive Guidelines
1.	Fundamental cardiac skills	
a.	Manual external CPR	CT
b.	Use of an automated external defibrillator	CT

Cardiac/Medical Skills		Interpretive Guidelines
2.	Advanced cardiac skills	
a.	Use of mechanical CPR assist devices	CT
b.	ECG monitoring and interpretation	CT <i>This includes obtaining and interpreting 12-Lead ECGs.</i>
c.	Manual cardiac defibrillation	CT* <i>CTs may only defibrillate a pulseless and apneic patient.</i>
d.	Emergency cardioversion, including vagal maneuvers	CT
e.	Transcutaneous cardiac pacing	CT
3.	Emergency childbirth management	
a.	Assist in the normal delivery of a newborn	CT
b.	Assist in the complicated delivery of a newborn	CT <i>This includes external fundal massage for post-partum bleeding, but does NOT include internal fundal massage.</i>
4.	Behavioral emergency skills	
a.	Manual and mechanical patient restraints for behavioral emergencies	CT <i>Includes soft disposable restraints and leather restraints, as approved by the local EMS medical director, and with appropriate patient monitoring.</i>

Trauma Care Skills		Interpretive Guidelines
1.	Managing injuries, including, but not limited to:	
a.	Manual cervical stabilization and cervical collar use	CT
b.	Manual stabilization of orthopedic trauma	CT
c.	Spinal motion restriction	CT <i>Includes the use of commercial spinal motion restriction devices such as the KED®.</i>
d.	Splinting	CT <i>This includes the use of traction splints.</i>
2.	Managing other traumatic injuries, including, but not limited to:	
a.	Fundamental bleeding control	CT <i>Includes direct pressure and bandaging.</i>
b.	Progressive bleeding control	CT <i>Includes the use of tourniquets and hemostatic agents as approved by the local EMS medical director.</i>
c.	Fundamental eye irrigation	CT
e.	Fundamental management of soft-tissue injuries	CT
f.	Complex management of soft-tissue injuries	CT
3.	Movement/extrication of patients, including, but not limited to:	
a.	Emergency moves for endangered patients	CT
b.	Rapid extrication of patients	CT