## **PERF Center on Force & Accountability**

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## **Conducted Energy Device (CED) Glossary of Terms**

Term	Definition
Accidental Discharge	The unintentional firing of a conducted energy device (CED).
Activate	Depressing the trigger of a CED causing a CED to arc or to fire probes.
Active Aggression	A threat or overt act of an assault (through physical or verbal means), coupled with the present ability to carry out the threat or assault, which reasonably indicates that an assault or injury to any person is imminent.
Actively Resisting	Physically evasive movements to defeat an officer's attempt at control, including bracing, tensing, pushing, or verbally signaling an intention to avoid or prevent being taken into or retained in custody.
<b>Aggravated Active Aggression</b>	Deadly force encounter.
Air Cartridge	A replaceable cartridge which uses compressed gases to fire two probes on connecting wires sending a high voltage/low current signal into a subject.
Applicable Response	Response determined appropriate for the given operational scenario.
Arcing/Arching	Activating a CED with no cartridge.
Automatic External	An apparatus that monitors the heart of the patient and then automatically administers a
Defibrillator (AED)	controlled electric shock to the chest to restore normal heart rhythm.
Basis Response	Generic responses that describe how people routinely behave as the result of
	the application of a weapon or technology [or tactic, or procedure] employed against them.
Bodily Injury	Injury to the human body that requires treatment by a doctor or other health professional.
CED Cycle	Duration of a CED electrical discharge following a CED activation.
<b>Central Information Display</b>	Display of data on the back of a conducted energy device.
(CID)	

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A circular force training model that promotes continuous critical assessment and evaluation of a force incident in which the level of response is based upon the situation encountered and level of resistance offered by a subject. The situational assessment helps officers determine the appropriate force option, ranging from physical presence to deadly force.
Injuries received in the incident not directly related to CED use (such as baton use, self-inflicted wounds, gunshot wounds).
A weapon primarily designed to disrupt a subject's central nervous system by means of deploying electrical energy sufficient to cause uncontrolled muscle contractions and override an individual's voluntary motor responses.
Confetti-like tags expelled from a cartridge of a CED when fired to shoot probes. Each tag contains a serial number unique to the specific cartridge used.
A training model/philosophy that supports the progressive and reasonable escalation and deescalation of officer-applied force in proportional response to the actions and level of resistance offered by a subject. The level of response is based upon the situation encountered at the scene and the actions of the subject in response to the officer's commands. Such response may progress from the officer's physical presence at the scene to the application of deadly force.
The use of police action to stop the activities of persons assembled.
Observing, monitoring, and facilitating the activities of persons assembled.
Projectiles that are fired from a CED and penetrate the skin; wires are attached to the probes leading back to the CED.
Point of entry for a probe on a person's body.
The act of removing a probe from a person's body or clothing.
Physical actions that attempt to prevent officer's control including flight or attempt to flee, but do not involve attempts to harm the officer.
Sending CED devices into the field with law enforcement officers.
Any tactic or use of force that has an intended, natural, and probable consequence of serious physical injury or death.
Barbs fired at a subject.
To stun a subject with a CED by making direct contact with the body after a CED cartridge has been expended or removed for pain compliance.
The aggregate period of time that CED shocks are activated.

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Electrocardiogram Monitor (ECG/EKG)	The machine that measures and records the electrical activity of the heart.
Electromuscular Disruption/Incapacitation (EMD)(EMI)	Effect CED has on the body. Overrides the brain's communication with the body and prevents the voluntary control over the muscles.
<b>Environmental Factors</b>	Factors such as wind speed, temperature, humidity, lighting, precipitation, terrain, etc.
<b>Excessive Force</b>	The application of an unreasonable amount (or force too long applied) of force in a given incident based on the totality of the circumstances.
<b>Excited Delirium</b>	State of extreme mental and physiological excitement, characterized by extreme agitation, hyperthermia, epiphoria, hostility, exceptional strength, and endurance without fatigue.
<b>Exigent Circumstances</b>	Circumstances that would cause a reasonable person to believe that prompt action is necessary to prevent physical harm to civilians and/or officers.
Firing	Discharging CED darts at a person.
Fleeing	An active attempt by a person to avoid apprehension by a law enforcement officer through evasive actions while attempting to leave the scene.
<b>Group Cohesion</b>	The ability to disrupt or control a group of individuals by either restricting or enhancing their organization, cooperation, and density.
Initial Basic Operator Training	The first basic CED training provided to officers prior to issuance of a CED.
Intentional Discharge Investigation	An investigation of the circumstances surrounding the firing or drive-stunning of a CED.
Intermediate Weapon	A weapon usage category situated between a <i>verbal command</i> and <i>lethal force</i> on a traditional force continuum.
<b>Laser Pointing (Red Dot)</b>	Unholstering and pointing a CED at a person and activating the device's laser dot.
Less Lethal	A concept of planning and force application that meets an operational or tactical objective, with less potential for causing death or serious injury than conventional more-lethal police tactics.
Less-Lethal Weapon	Any apprehension or restraint device that, when used as designed and intended, has less potential for causing death or serious injury than conventional police lethal weapons.
Measures of Effectiveness	Measures indicating the degree to which a target response satisfies a requirement within an operational context.
Measures of Response	Measures indicating how a target reacts to a system's effects.
<b>Objective Reasonableness</b>	Reasonableness of a particular use of force must be judged from the perspective of a reasonable

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	officer on the scene in light of the facts and circumstances confronting the officer.
Onset Time (ideally equal to	The period between the deployment of a less-lethal weapon system [or tactic, technique, or
zero)	procedure] and the point when the magnitude of the desired effect attains some particular
	threshold.
<b>Operational Effectiveness</b>	That level of force necessary to achieve compliance, safeguard persons and property, or prevent
_	injury.
Operational Safety	That degree of risk determined to be acceptable in order to accomplish a mission without
-	unduly endangering officers, bystanders, or suspects.
Passive Resistance	Physical actions that do not prevent the officer's attempt to control, for example, a person who
	remains in a limp, prone position, passive demonstrators, etc.
Pointing/Aiming	Unholstering and pointing a CED at a person.
<b>Post-Activation Investigation</b>	An investigation of the circumstances surrounding the intentional or unintentional firing of
	probes or drive-stunning of a CED.
Primary Injury	Immediate or delayed consequences of a CED resulting directly from an electrical current flow
(1 <sup>st</sup> Order Effect)	in the body.
<b>Probe Spread</b>	The amount of distance between probes fired from a CED (e.g., approximately one foot spread
	for every seven feet travel distance).
<b>Proximity Death</b>	The death of a person that occurred in proximity to the use of a conducted energy device
	(usually within 24 hours).
<b>Psychological Intimidation</b>	Non-verbal cues in attitude, appearance, demeanor, posture, or physical readiness that indicate
	an unwillingness to cooperate, pre-assualtive posturing, or a threat.
Physical Weapon	The intrinsic qualities of a weapon including dimensional design values associated with a
Characteristics	weapon (weight, caliber, size, power requirement, shelf life, etc.).
Secondary Injury	Physical trauma indirectly associated with CED use (e.g., injuries from falls).
(2 <sup>nd</sup> Order Effect)	
Sensitive Areas	A person's head, neck, genital area, and a female's breast areas.
<b>Serious Bodily Injury</b>	Bodily injury that, either at the time of the actual injury or at a later time, involves a substantial
	risk of death, a substantial risk of serious permanent disfigurement, a substantial risk of
	protracted loss or impairment of the function of any part or organ of the body, or breaks,
	fractures, or burns of the second or third degree.
Spark Test	Non-contact testing of a CED by arcing it to ensure it is in proper working order.

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Standard CED Cycle	A five second electrical discharge occurring when a CED trigger is pressed and released. The
	standard five-second cycle may be shortened by turning the CED off. (Note: If a CED trigger is
	pressed and held beyond five seconds, the CED will continue to deliver an electrical discharge
	until the trigger is released.)
<b>Substantial Investigation</b>	An extensive investigation into the use of a conducted energy device that is conducted by
	investigators outside the chain of command of the firing officer.
Target Recovery (ideally full	The period when the target response falls below a particular threshold and a full recovery of
recovery immediately at the end	unimpaired functionality is desired in an operationally meaningful context.
of the desired duration)	
<b>Unintentional Discharge</b>	The unintentional firing of a CED (includes discharges caused by involuntary muscle
	contraction and mechanical malfunction).
Ventricular Fibrillation (VF)	Ventricular fibrillation is a condition in which the heart's electrical activity becomes disordered.
Verbal Non-Compliance	Verbal responses indicating an unwillingness to comply with an officer's directions.