Heat-Related Illness Training

In the last 20 years, more people have died from extreme heat than from hurricanes, lightning, tornados, floods, and earthquakes combined-last year there were more than 300 heat related deaths. Heat-related illness can occur when combinations of external heat sources (e.g. air temperature and humidity) and metabolic heat production (e.g. muscular activity) overwhelm the body's ability to regulate its temperature. If someone's heart begins to pound, they find it difficult to breath, become lightheaded, confused, weak or faint, heat-related illness should be assumed. They should stop all activity and be provided with a means to quickly cool themselves, and be monitored during recovery.

Heat-related illnesses do not always occur in the same way; a person can go from muscle cramps straight to heat stroke quickly and without experiencing any other signs or symptoms. Also, heat-related illness may progress over several days. This is why it is so important to identify symptoms of heat-related illness promptly and treat them all seriously. While heat exhaustion and heat stroke are considered "severe" heat-related illnesses, heat rash and heat cramps are also serious.

Factors Leading to Heat Stress

 High temperature and humidity Direct sun or heat Limited air movement Physical exertion 	 Poor physical condition or certain health conditions Some medications Inadequate tolerance for hot workplaces
Symptoms of Heat Exhaustion	
 Weakness or fatigue Dizziness or lightheadedness Upset stomach or vomiting 	 Fainting Headache or blurred vision Mood changes (irritability or confusion)
Symptoms of Heat Stroke (leads to death)	
Dry, hot skin with no sweatingMental confusion	Losing consciousnessSeizures or fits
Preventing Heat Stress	
 Know signs/symptoms of heat-related illnesses Monitor yourself and coworkers Drink lots of water; about a cup every 15 minutes 	 Wear lightweight, light colored, loose-fitting clothes Avoid alcohol, caffeinated drinks, or heavy meals
What to Do for Heat-Related Illness	
Call 911(or a local emergency number) immediately	
While Waiting for Help to Arrive	
 Move the worker to a cool, shaded area Loosen or remove heavy clothing and PPE 	Provide cool drinking waterFan and mist the person with water

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Outdoor Temperature Action Levels

Non-breathing clothes including vapor barrier clothing or PPE such as chemical resistant suits	52 degrees F
Double-layer woven clothes including coveralls, jackets and sweatshirts (Note: also regular rain gear)	77 degrees F
All other clothing	89 degrees F

The action levels require that each employee has a minimum of 1 quart of water per hour available to drink and an area to cool down if necessary.

TO BE POSTED

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	Signs and Symptoms	First Aid and Treatment
Sunburn	red, hot skinmay blister	 move to shade, loosen clothing apply cool compresses or water
Heat Rash	red, itchy skinbumpy skinskin infection	 apply cool water or compresses keep affected area dry control itching and infection with prescribed medication
Heat cramps	 muscle spasms in legs or abdomen grasping the affected area abnormal body position 	 move person to a cooler location stretch or massage muscles for cramps get medical evaluation if cramps persist give cool water or electrolyte- containing fluid to drink
Heat exhaustion	 headaches clumsiness dizziness/lightheadedness/fainting weakness/exhaustion/fatigue heavy sweating/clammy/moist skin irritability/confusion nausea/vomiting paleness high pulse rate 	 move person to a cooler place (do not leave alone) loosen and remove heavy clothing that restricts evaporative cooling if conscious, provide small amounts of cool water to drink fan person, spray with cool water, or apply a wet cloth to skin to increase evaporative cooling lay flat and elevate feet evaluate mental status (ask who, where, when questions) call 911 if not feeling better within a few minutes
Heat stroke	 any of the above, but more severe sweating may or may not be present red or flushed, hot dry skin bizarre behavior mental confusion or losing consciousness panting/rapid breathing rapid, weak pulse seizures or fits can be fatal 	 call 911 move person to a cooler place (do not leave alone) cool worker rapidly if conscious, provide small amounts of water to drink loosen and remove heavy clothing that restricts evaporative cooling fan person, spray with cool water, or apply a wet cloth to skin to increase evaporative cooling lay flat and elevate feet monitor airway and breathing, administer CPR if needed

Heat-Related Illness Training Record

Date: _____

PRINT NAME	PRINT NAME