Heat Stroke						
Causes	Signs	Risks	Diagnosis	First Aid and Treatment	Prevention	
<ul> <li>Extreme physical activities in a hot environment</li> <li>Dehydration</li> <li>Wear excessive clothing and equipment</li> </ul>	<ul> <li>High body temperature</li> <li>Hot and dry skin or profuse sweating</li> <li>Dysfunction of the nervous system causing altered mental status, confusion, and difficulty to speak</li> </ul>	<ul> <li>Some predisposing factors are obesity, and lack of physical fitness</li> <li>Ingestion of alcoholic beverages</li> <li>Individual Susceptibility</li> <li>Chronic vascular disease</li> <li>Sleep Deprivation</li> <li>Drug abuse</li> <li>Concurrent illness</li> <li>Areas with severity heat waves</li> </ul>	<ul> <li>Core temperature above 40°</li> <li>Mental confusion</li> <li>Seizures or delirium</li> <li>Profuse sweating (not necessarily)</li> <li>Tachycardia</li> <li>Hypotension</li> </ul>	<ul> <li>Call 911 for emergency medical care</li> <li>Stay with the individual until emergency medical services arrival</li> <li>Immediate removal of clothing and removal from the heat to a shaded-cool area</li> <li>Placement of ice or wet fabric on head, neck, armpits, and groin of the individual, if possible, cool the worker quickly with cold water or ice bath</li> <li>Circulate the air around the individual to increase cooling</li> </ul>	<ul> <li>Wear light color and lightweight clothes</li> <li>Stay hydrated</li> <li>Have access to shaded-cool areas throughout heat waves or during a hot day at work</li> <li>Avoid extreme physical activity during hot and humid weather</li> <li>Take breaks as needed</li> <li>Maintain water and salt intake during activities</li> </ul>	

Heat Exhaustion						
Causes	Signs	Risks	Diagnosis	First Aid and Treatment	Prevention	
<ul> <li>The water depletion form occurs in hot environment workers with insufficient water replacement</li> <li>Salt depletion form occurs when those workers present excessive sweating with concomitant restitution of fluid losses with hypotonic solutions</li> </ul>	<ul> <li>Nausea</li> <li>Headache</li> <li>Fatigue</li> <li>Weakness</li> <li>Dizziness</li> <li>Thirst</li> <li>Profuse</li> <li>sweating</li> <li>Irritability</li> <li>High body</li> <li>temperature</li> <li>Muscle cramps</li> <li>Shortness of</li> <li>breath</li> <li>Syncope</li> </ul>	<ul> <li>Dehydration</li> <li>High body mass index</li> <li>Work in a hot environment</li> <li>Elevated urine specific gravity, hematocrit, hemoglobin, or serum osmolality suggesting lack of hydration</li> <li>Air temperature</li> <li>&gt; 33 °C</li> <li>Air velocity &lt; 2m/s</li> </ul>	<ul> <li>Core body temperature less than 40 °C and do not have a sign of severe central nervous system damage</li> <li>Systemic complaints including weakness, dizziness, headache, nausea, fatigue, vomiting, muscle cramps, and present profuse sweating</li> <li>Orthostatic syncope</li> <li>Laboratory abnormalities as hyponatremia or hypernatremia</li> </ul>	<ul> <li>Take the worker to an emergency room for medical evaluation and treatment</li> <li>If the medical facility is not available, call 911</li> <li>Stay with the worker until the medical assistance arrives</li> <li>Remove the individual from the hot environment</li> <li>Replace oral fluid and salt if needed</li> <li>Remove unnecessary clothing as well as shoes and socks</li> <li>Cool the individual with a cold compress or wash their head, face, and neck with cold water</li> <li>Encourage repeated sips of cold water</li> </ul>	<ul> <li>Fluid replacement with carbohydrate- electrolyte solutions</li> <li>Overhydration should also be avoided</li> </ul>	

	Heat Rash							
Causes	Signs	Risks	Diagnosis	First Aid and Treatment	Prevention			
<ul> <li>Tropical</li> <li>Climates</li> <li>Physical activity</li> <li>Overheating</li> <li>Prolonged bed rest</li> </ul>	<ul> <li>Irritation of the skin looking like pimples</li> <li>Small blisters</li> </ul>	• Constant exposure to humid heat with skin continuously humid with unevaporated sweat	<ul> <li>The skin presents itchy and painful red pimples or blisters clusters</li> <li>Skin Lesions</li> </ul>	<ul> <li>Move to a cooler and less humid environment</li> <li>Keep the rash area as dry as possible</li> <li>In order to increase comfort, apply powder on the rash surface</li> <li>Ointments and creams should not be used</li> </ul>	<ul> <li>Maintain the skin dry</li> <li>Avoid continuous exposure to the sun that induces the sweat production</li> <li>Avoid hot and humid environments</li> <li>Avoid the strenuous practice of physical activities during warm days</li> </ul>			

Heat Syncope							
Causes	Signs	Risks	Diagnosis	First Aid and Treatment	Prevention		
<ul> <li>Prolonged standing</li> <li>Dehydration</li> <li>Coexisting medical condition such as ischemic heart disease that weakens cardiac output</li> <li>Lack of acclimation</li> </ul>	<ul> <li>Fainting</li> <li>Light- headedness during prolonged standing or abruptly rising from a sitting or lying position</li> <li>Dizziness</li> </ul>	<ul> <li>Lack of fluid ingestion</li> <li>More common to happen with elderly people and individuals with some coexisting medical circumstances</li> <li>Poorly acclimatization environment</li> </ul>	<ul> <li>Short fainting</li> <li>The individual presents light- headedness when rises quickly from a sitting or lying position</li> <li>Wooziness</li> </ul>	<ul> <li>Lay down or sit in a cool place</li> <li>Slowly drink water, sports drinks, or a clear juice</li> <li>Take a rest and receive oral or intravenous rehydration</li> </ul>	<ul> <li>Maintain hydration</li> <li>Avoid being continuously in a hot and humid environment with no cooling</li> </ul>		

Heat Cramps						
Causes	Signs	Risks	Diagnosis	First Aid and Treatment	Prevention	
<ul> <li>It is caused by a loss of electrolytes in sweat</li> <li>When individuals replace evaporative losses with free water but do not ingest sodium</li> </ul>	<ul> <li>Most often, it is</li> <li>experienced</li> <li>in the lower</li> <li>part of the</li> <li>body</li> <li>Normal</li> <li>body</li> <li>temperature</li> <li>Harsh leg</li> <li>cramps</li> </ul>	<ul> <li>Heavy sweating while performing activities under heat</li> <li>Drink a large volume of water without replacing salt loss</li> </ul>	<ul> <li>Painful muscle seizures, generally in the calves, thighs, and shoulders</li> <li>Can manifest fever or not</li> </ul>	<ul> <li>Stop activities and rest</li> <li>Drink water and have a snack or take a carbohydrate- electrolyte replacement liquid such as sports drink every 15 to 20 minutes</li> <li>Avoid salt tablets</li> <li>It is important to get medical help if the worker has heart complications, is on a low sodium diet, or if cramps do not stop within more than sixty minutes</li> </ul>	• Always replace the fluid losses with a solution that contains a balanced electrolyte concentration not just free water	