

## **Heat Stress**

## How does the body react to heat?

The body reacts to heat by increasing the blood flow to the skin's surface, and by sweating. This results in cooling as sweat evaporates from the body's surface and heat is carried to the surface of the body from within by the increased blood flow. Heat can also be lost by radiation and convection from the body's surface.

When the temperature raise, so does the stress that heat put on your body. Heat, when combined with other stresses such as hard physical work, loss of fluid fatigue or some preexisting medical condition may lead to heat related illness, injuries, disabilities and even death.

Heat Related Illness	<b>Risk Factors for Heat Illness</b>	Assessing the Heat Stress
Heat Syncope	High temperature and humidity,	Thermal Work Limit (TWL) is an index of heat
Heat Exhaustion	direct sun	stress that gives a measure of safe work rate
Heat Stroke	<ul> <li>exposure, no breeze or wind</li> </ul>	based on existing environmental conditions
	<ul> <li>Heavy physical labor</li> </ul>	(temperature, humidity, wind speed).
	<ul> <li>No recent exposure to hot workplaces</li> <li>Low liquid intake</li> <li>Waterproof clothing</li> </ul>	<ul> <li>It is used to guide the protection of workers in high temperatures and harsh working conditions.</li> </ul>
	• waterproof clothing	<ul> <li>The lower the Twill value, the harsher is the working condition.</li> </ul>

Thermal Work Limit (TWL): A Thermal Work Limit (TWL) is an index of heat stress that gives a measure of safe work rates based on existing environmental conditions (temperature, humidity, wind speed, etc.).

## Employee Responsibilities:

- Properly hydrate before, during, and after work.
- Drink at least 2 liters every 2-3 hours in summer.
- Be watchful for symptoms (self and others).
- Co-workers should recognize what's happening and intervene. A worker heading into heatstroke will no longer realize what's happening to them.
- Wear appropriate clothing and PPE where applicable.
- Be aware when using any PPE that prevents sweat from evaporating.







HEAT-RELATED ILLNESSES ARE PREVENTABLE! HAVE A SAFE SUMMER 2023