SUPERVISOR INSTRUCTIONS:

- Use toolbox trainings to encourage safety/environmental discussions during monthly meetings with employees.
- Campus Services' employees should maintain the employee sign-in sheet in their department's safety/environmental compliance binder as a record of training. All other groups should maintain a record of training in accordance with their Division's training procedures.

t's that time of year again! With summer rapidly approaching heat stress needs to be addressed. Georgia summers can be excruciating, and no matter if you work indoors or outside you should understand how to deal with extreme heat. If the body is unable to cool itself, a worker can experience heat stress which occurs as a result of the body gaining heat faster than it removes heat. The body temperature rises and a person experiences heat stress.



- Early signs and symptoms of heat stress include headache, nausea, decreased efficiency, reduced coordination and alertness, increased irritability, light-headedness, dizziness, fainting, and swelling of hands, feet and ankles (usually one to two days after first exposure).
- Remove the worker from the hot environment to rest in a cool place and to drink cool
 water. Have the worker rest with his or her legs and feet elevated. Have the worker
 assessed by medical personnel. Keep the worker under observation until he is fully
 recovered from the effects of the heat.

Aspirin or non-steroidal anti-inflammatory drugs should not be given to workers to relieve symptoms of heat stress.

Heat Rash

People working in hot, humid conditions may develop a rash that is accompanied by intense itching spasms and prickly sensations. Heat rashes are most likely to occur in areas where clothing traps hot and humid air next to the skin.

- Avoid repeated exposure to heat. Change all clothing often when sweating is profuse. Always wear clean, starch-free, loose-fitting clothing.
- Leave the hot environment, preferably until the rash has healed. Keep the affected area clean, cool and dry as much as possible.

Heat Syncope (Fainting)

Heat syncope is a fainting (syncope) episode or dizziness that usually occurs with prolonged standing or sudden rising from a sitting or lying position. Factors that may contribute to heat syncope include dehydration and lack of acclimatization.

Revision Date: 29-Nov-17

- Symptoms include lightheadedness, dizziness or fainting.
- Workers with heat syncope should sit or lie down in a cool place when they start to feel symptoms and drink cool water.

SAFETY/ENVIRONMENTAL TOOLBOX TALKS — HEAT STRESS

Heat Cramps

Heat cramps are painful muscle cramps caused by excessive sweating during strenuous activity, which depletes the body of salt and water.

- Place the worker at rest in a cool place. Give the worker cool water to drink. Salt tablets and sports drinks (e.g. Gatorade®, Powerade®, etc.) are not recommended. Rest alone is not sufficient — heat cramps often occur in the resting state after a work shift.
- Heat cramps are cured only after the depleted salt has been replaced. More importantly, continued work under conditions of heat stress can lead to heat exhaustion, a more serious disorder. When a worker has cramps, along with other symptoms such as fatigue, weakness, headache, gastrointestinal illness or changes in mental state, the worker may already be suffering from heat exhaustion or heat stroke.

Heat Exhaustion

Heat exhaustion is the body's response to an excessive loss of the fluids and salt contained in sweat.

- Signs and symptoms include general weakness, tiredness, poor muscle control, dizziness and fainting, headache and nausea, pale, cool and clammy skin, profuse sweating, rapid pulse, rapid shallow breathing and muscle cramps.
- Place the worker at rest in a cool place. Elevate the worker's feet and give cool water to drink, if not vomiting. Seek medical attention immediately.

Heat Stroke

Heat stroke is a life-threatening condition in which the body's core temperature rises above 106°F. At core body temperatures over 106°F, sweating often stops. The body is unable to get rid of heat and the body temperature may continue to rise. The person's mental functions may become disturbed. Without immediate first aid, heat stroke can result in a coma, permanent brain damage or death. **This is an emergency situation.**

- Heat stroke can come about suddenly and without warning.
- Signs and symptoms include hot, dry, flushed skin (usually with no sweating), agitation and confusion, headache, nausea, vomiting, rapid shallow breathing, irregular pulse, possible seizures, loss of consciousness and possible shock and cardiac arrest.
- Attempt to cool the worker, and arrange for medical attention as quickly as possible.
- When the worker is not breathing or is unconscious, regular first aid procedures should be started by a trained individual. Move the worker to the coolest area available. Loosen or remove outer clothing. Continue to cool the worker by sponging, spraying him with cool water or by covering him with damp sheets, while waiting for medical help to arrive. Additional cooling may be provided by fanning the worker.

Only employees trained in first aid should attempt to give first aid. Never exceed your level of First Aid, cardiopulmonary resuscitation (CPR) or automated external defibrillator (AED) training.

Preventing Heat Illness

The following are safety guidelines to protect workers from heat hazards:

Acclimatization-Adjusting Your Body for Heat Exposure

- During the first few days of working in heat the body needs time to adjust, so start work slowly and increase pace gradually.
- Report to a supervisor if returning to work after an absence or illness or when changing from a cool to a hot/humid environment.
- During a heat wave, there is still a risk for illness even if the body is acclimatized.

Revision Date: 29-Nov-17

SAFETY/ENVIRONMENTAL TOOLBOX TALKS — HEAT STRESS

Fluids-Avoiding Dehydration

- Increase fluid intake during hot weather regardless of activity level.
- Drink two to four glasses (16-32 ounces) of cool water each hour.
- Don't wait until you are thirsty to drink.

Skin Protection-Dressing Properly for the Job

- Wear a wide-brimmed hat and loose-fitting, long-sleeved, light-colored clothing to help with ventilation.
- Use extra caution if you are required to wear clothing on the job which limits evaporation--you could succumb to heat stress much more quickly.
- Wear sunglasses.
- Apply sunscreen (SPF 15 or higher) 15-30 minutes prior to going outdoors on areas of the body that will be exposed to the sun and re-apply every two hours.

Administrative Controls-How Can Supervisors/Management Help?

- Encourage employees to take more frequent breaks and hydrate anytime they feel necessary.
- Be aware that some medications and illnesses may increase heat-related risks.
- Provide a break area out of the direct sun or in an air conditioned building.
- Schedule tasks to avoid heavy physical activity during the hottest parts of the day.
- Provide cool drinking water and encourage its consumption.
- Use additional workers for jobs or slow down the pace of the work.
- Make sure everyone understands the signs and symptoms of heat stress.
- Schedule routine maintenance and repairs during cooler seasons of the year.

Questions for Discussion

- 1. True or False. Workers suffering from heat stress should be given aspirin.
 - **Answer:** Neither aspirin nor non-steroidal anti-inflammatory drugs should not be given to workers to relieve symptoms of heat stress.
- 2. True or False. Heat stroke is a life-threatening condition in which the body's core temperature rises above 106°F.

Answer: True

3. True or False. It is more difficult for sweat to evaporate when the humidity is high.

Revision Date: 29-Nov-17

Answer: True

4. True or False. Allowing for frequent breaks when working in the heat is a way to prevent heat illness.

Answer: True