Occupational Safety and Health Administration

Heat

Occupational Heat Exposure Menu

Workers' Rights

Heat-Related Illnesses and First Aid

Several heat-related illnesses can affect workers. Some of the symptoms are non-specific. This means that when a worker is performing physical labor in a warm environment, any unusual symptom can be a sign of overheating.

Heat-Related Illness	Symptoms and Signs
Heat stroke	 Confusion Slurred speech Unconsciousness Seizures Heavy sweating or hot, dry skin Very high body temperature Rapid heart rate
Heat exhaustion	 Fatigue Irritability Thirst Nausea or vomiting Dizziness or lightheadedness Heavy sweating Elevated body temperature or fast heart rate
Heat cramps	Muscle spasms or painUsually in legs, arms, or trunk

Submit Feedback



Heat syncope	FaintingDizziness
Heat rash	 Clusters of red bumps on skin Often appears on neck, upper chest, and skin folds
Rhabdomyolysis (muscle breakdown)	Muscle painDark urine or reduced urine outputWeakness

Employers and workers should become familiar with the heat symptoms. When any of these symptoms is present, promptly provide first aid. Do not try to diagnose which illness is occurring. Diagnosis is often difficult because symptoms of multiple heat-related illnesses can occur together. Time is of the essence. These conditions can worsen quickly and result in fatalities.

When in doubt, cool the worker and call 911.

See below for further first aid recommendations.

First Aid



OSHA's <u>Medical Services and First Aid standard</u> and the <u>Medical Service and First Aid in</u>
<u>Construction</u> require the ready availability of first aid personnel and equipment. First aid for heat-related illness involves the following principles:

- Take the affected worker to a cooler area (e.g., shade or air conditioning).
- Cool the worker immediately. Use active cooling techniques such as:
 - Immerse the worker in cold water or an ice bath. Create the ice bath by placing all of the available ice into a large container with water, standard practice in sports. This is the best method to cool workers rapidly in an emergency.
 - Remove outer layers of clothing, especially heavy protective clothing.
 - Place ice or cold wet towels on the head, neck, trunk, armpits, and groin.
 - Use fans to circulate air around the worker.
- Never leave a worker with heat-related illness alone. The illness can rapidly become worse. Stay with the worker.
- When in doubt, call 911!

Confusion, slurred speech, or unconsciousness are signs of heat stroke. When these types of symptoms are present, call 911 immediately and cool the worker with ice or cold water until help arrives.

Workers who are new to working in warm environments are at increased risk of heat-related illness. See the <u>Protecting New Workers</u> section of this website for more details. Especially during a worker's first few days, absolutely all symptoms should be taken seriously. Workers who develop symptoms should be allowed to stop working. They should receive evaluation for possible heat-related illness.

OSHA Standards Enforcement Topics Media Center Contact Us



U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration 200 Constitution Ave NW Washington, DC 20210

Submit Feedback

1-800-321-OSHA 1-800-321-6742 www.osha.gov

FEDERAL GOVERNMENT OCCUPATIONAL SAFETY & HEALTH HEALTH OCCUPATIONAL SAFETY HEALTH HEALTH OCCUPATIONAL SAFETY HEALTH HEALTH

White House Frequently Asked Questions

Benefits.gov A - Z Index

Coronavirus Resources Freedom of Information Act - OSHA

Disaster Recovery Assistance Read The OSHA Newsletter

DisasterAssistance.gov Subscribe to the OSHA Newsletter

USA.gov OSHA Publications

Notification of EEO ViolationsOffice of Inspector General

No Fear Act Data

U.S. Office of Special Counsel

ABOUT THE SITE

Freedom of Information Act

Disclaimers

Plug-ins Used on DOL.gov

Accessibility Statement

Connect With OSHA











Site Map

Important Website Notices

Privacy & Security Statement