

Working in the Heat

The human body works at its best within a narrow temperature range.

→ A movement of 2°C or more above or below the body's normal temperature of 37 °C and problems can start to happen.

Heat Illness

Exposure to heat can cause illness and death. The most serious heat illness is **heat stroke**. Other heat illnesses, such as **heat exhaustion**, **heat cramps** and **heat rash**, should also be avoided.

There are precautions that can be taken any time temperatures are high and the job involves physical work.

Risk Factors for Heat Illness

- → High temperature and humidity, direct sun exposure, no breeze or wind
- \rightarrow Heavy physical labor
- \rightarrow No recent exposure to hot workplaces
- → Low liquid intake
- → Waterproof clothing

Symptoms of Heat Exhaustion

- \rightarrow Headache, dizziness, or fainting
- \rightarrow Weakness and wet skin
- \rightarrow Irritability or confusion
- → Thirst, nausea, or vomiting



Symptoms of Heat Stroke

- → May be confused, unable to think clearly, pass out, collapse, or have seizures (fits)
- \rightarrow May stop sweating

To Prevent Heat Illness:

- → Have a lot of cool water available close to the work area. At least half a litre of water per hour is needed.
- → Work modified schedules and take frequent rest periods with water breaks in shaded or air-conditioned areas.
- → *Gradually* increase your workload to allow acclimatization.
- → Your supervisor should monitor conditions and protect any workers who are at risk of heat stress.
- → Consider protective clothing that provides cooling.

How to Protect Yourself

- → Know signs/symptoms of heat illnesses; monitor yourself; use a buddy system.
- → Block out direct sun and other heat sources.
- → Drink plenty of fluids. Drink often and BEFORE you are thirsty. Drink water every 15 minutes.
- → Avoid beverages containing alcohol or caffeine.
- → Wear lightweight, light colored, loosefitting clothes.



What to Do When a Worker is III from the Heat

- \rightarrow Call your supervisor for help. If the supervisor is not available, call 911.
- \rightarrow Have someone stay with the worker until help arrives.
- \rightarrow Move the worker to a cooler/shaded area.
- \rightarrow Remove outer clothing.
- \rightarrow Fan and mist the worker with water; apply ice (ice bags or ice towels).
- \rightarrow Provide cool drinking water, if able to drink.

IF THE WORKER IS NOT ALERT or seems confused, this may be a heat stroke. CALL 911 IMMEDIATELY and apply ice as soon as possible.



Heat stress quick guide

Heat S	tress Symptoms	Treatment	Prevention
Heat rash (prickly heat)			
\rightarrow	Tingling and burning of the skin	Take cool showers	Keep the skin as clean and dry as possible
\rightarrow	Red itchy rash	Dry skin thoroughly	Rest in a cool place
\rightarrow	Sweat glands plugged due to	Apply calamine lotion	Shower often
	prolonged exposure of skin to heat, humidity and sweat		Change clothes frequently
Heat cramps		Massage the muscle(s)	Warm up muscles before heavy work
\rightarrow	Painful spasms of muscles	Eat foods containing salt (unless they are to be avoided due to medical condition)	Take regular rest breaks
	that do the hardest work i.e. in the arms, legs and abdomen		Eat a normal, healthy diet, including plenty of fluids
Fainting		Lie down in a cool place	Drink plants of fluids at regular intervals
\rightarrow	Increased flow of blood to the	Drink cool fluids to lower body temperature Seek medical attention if fainting recurs	Drink plenty of fluids at regular intervals
	skin to get rid of heat means less blood to the brain		Avoid standing still in one position — move around
Heat exh	austion		
\rightarrow	Tired, weak, dizzy	Lie down with knees raised Drink cool, not cold fluids Seek medical attention if condition does not improve quickly	Take four to seven days to adjust (acclimatize) to the heat Drink plenty of fluids at regular intervals
\rightarrow	Cool, clammy skin Slow .weak pulse		
\rightarrow \rightarrow	Pale or flushed skin		
\rightarrow	Higher than normal heart rate		Take rest breaks in a cool place
	(160 to 180 beats/minute)		
Heat stro	oke		
\rightarrow	Person usually stops sweating	ature is high person must be taken to the hospital as quickly as possibleTake (accli Drink Take (accli Drink Take Or hilled water and fan vigorouslyTake Carling Drink Take Wear Conditional control of the hospital as Drink Take/.Move worker to a cool or shaded area, remove clothing, wrap in wet sheet, pour on chilled water and fan vigorouslyTake Wear Conditional control of the hospital as Drink Take	Take four to seven days to adjust (acclimatize) to heat Drink plenty of fluids at regular intervals
\rightarrow	Body core temperature is high (40-43 ° C.)		
\rightarrow	Skin is hot and dry.		
\rightarrow	Person may experience		Take rest breaks in a cool place
	headache, dizziness, and		Wear clothing appropriate for the
\rightarrow	confusion May lose consciousness or		conditions
	have convulsion		Follow a work/rest schedule

have convulsion \rightarrow Fatal if treatment is delayed