

# Fire Rescue & Emergency Services

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## Winter Safety Tips

Winter is a season associated with snowmen, skiing, ice-skating, and enjoying the warmth of a fireplace at the end of a day's outdoor activities. The winter weather that allows us to enjoy these outdoor pleasures also poses a threat to our well-being when we don't heed the basic safety cold weather precautions listed below. So, take the time to familiarize yourself with the National Weather Service terms associated with winter storms and to review the winter safety tips intended to help you prepare for severe winter weather.

### TERMS TO KNOW

- **Winter Storm Watch:** Severe winter conditions, such as heavy snow and or ice, are possible within the next day or two. Prepare now.
- **Winter Storm Warning:** Severe winter weather conditions have begun or are about to begin in your area. Stay indoors.
- **Blizzard Warning:** Snow and strong winds will combine to produce a blinding snow (near zero visibility), deep drifts, and life threatening wind chill. Seek refuge immediately.
- **Winter Weather Advisory:** Winter weather conditions are expected to cause significant inconveniences and may be hazardous. If caution is exercised, these situations should not become life-threatening.
- **Frost/Freeze Warning:** Below freezing temperatures are expected and may cause significant damage to plants, crops, or fruit trees.

### PREPARING BEFORE THE STORM

**AT HOME:** Primary concerns are the potential loss of heat, power, telephone, and shortage of supplies if storm conditions continue for more than a day.

#### HAVE AVAILABLE:

- Flashlight and spare batteries.
- Battery powered NOAA weather radio and a portable radio.
- One week supply of food and water, canned and or dried foods are desired in the event electrical power is lost.
- If you rely on medication, you should have at least a one weeks supply on hand.
- First-aid kit and a fire extinguisher.
- Extra blankets and or a sleeping bags.
- Keep a shovel indoors in the event you become snow bound.

**YOUR VEHICLE:** Plan your travel and check the latest weather reports to avoid the storm.

#### HAVE AVAILABLE IN YOUR VEHICLE:

- Blankets/sleeping bags
- Flashlight with extra batteries
- First-aid kit and fire extinguisher
- A two day supply of non-perishable food and water
- Small shovel, pocketknife and a tool kit
- Tow rope
- Booster cables
- Bag of sand or cat litter
- Windshield scrapper and brush
- Extra set of clothes
- Compass and road map
- Matches

- Tissues and paper towels

**IMPORTANT TIPS:**

- Keep your gas tank and windshield washing fluid reservoir full and use gas line antifreeze.
- Try not to travel alone.
- Let someone know your timetable and travel route.
- If you have a cell phone number, leave it with a friend or relative.
- Ensure your windshield wipers are in good condition.

**IF YOU BECOME STRANDED IN YOUR VEHICLE:**

- Stay in vehicle: DO NOT leave the vehicle to search for assistance unless assistance is visible.
- Occasionally run the engine to keep warm. Beware of carbon monoxide poisoning, and always make sure the exhaust pipe is clear.
- Exercise your hands, arms and legs. Do not stay in one position for an extended period of time.
- Place a bright colored cloth or flag outside the vehicle and tie it off to the windshield wiper or antenna.

## Winter Weather FAQ

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### How can I heat my home safely?

If you plan to use a wood stove, fireplace, or space heater, be extremely careful. Follow the manufacturer's instructions as well as the advance home safety measures on page 4 and remember

these safety tips:

- Store a multipurpose, dry chemical fire extinguisher near the area to be heated.
- Do not burn paper in a fireplace.
- Ensure adequate ventilation by opening an interior door or slightly opening a window if you must use a kerosene heater.
- Use only the type of fuel your heater is designed to use—don't substitute.
- If your heater has a damaged electrical cord or produces sparks, don't use it.
- Use fireplaces, wood stoves, and other combustion heaters only if they are properly vented to the outside and do not leak flue gas into the indoor air space. Make sure chimneys and flues are cleaned periodically.
- Do not place a space heater near things that may catch on fire, such as drapes, furniture, or bedding.

## What is hypothermia?

When exposed to cold temperatures, your body begins to lose heat faster than it can be produced. The result is hypothermia, or abnormally low body temperature. Body temperature that is too low affects the brain, making the victim unable to think clearly or move well. This makes hypothermia particularly dangerous because a person may not know it is happening and won't be able to do anything about it.

Hypothermia occurs most commonly at very cold environmental temperatures, but can occur even at cool temperatures (above 40°F) if a person becomes chilled from rain, sweat, or submersion in cold water.

## Who is most at risk for hypothermia?

Victims of hypothermia are most often:

- elderly people with inadequate food, clothing, or heating
- babies sleeping in cold bedrooms
- children left unattended
- adults under the influence of alcohol
- mentally ill individuals
- people who remain outdoors for long periods—the homeless, hikers, hunters, etc.

## What are the warning signs for hypothermia?

### **Adults:**

- shivering/exhaustion
- confusion/fumbling hands
- memory loss/slurred speech
- drowsiness

### **Infants:**

- bright red, cold skin
- very low energy

## What should I do if I see someone with warning signs of hypothermia?

If you notice signs of hypothermia, take the person's temperature. If it is below 95°, the situation is an emergency—get medical attention immediately.

If medical care is not available, begin warming the person, as follows:

- Get the victim into a warm room or shelter.
- If the victim has on any wet clothing, remove it.
- Warm the center of the body first—chest, neck, head, and groin—using an electric blanket, if available. Or use skin-to-skin contact under loose, dry layers of blankets, clothing, towels, or sheets.
- Warm beverages can help increase the body temperature, but do NOT give alcoholic beverages. Do not try to give beverages to an unconscious person.
- After body temperature has increased, keep the person dry and wrapped in a warm blanket, including the head and neck.
- Get medical attention as soon as possible.

A person with severe hypothermia may be unconscious and may not seem to have a pulse or to be breathing. In this case, handle the victim gently, and get emergency assistance immediately. Even if the victim appears dead, CPR should be provided. CPR should continue while the victim is being warmed, until the victim responds or medical aid becomes available. In some cases, hypothermia victims who appear to be dead can be successfully resuscitated.

## What is frostbite?

Frostbite is an injury to the body that is caused by freezing. Frostbite causes a loss of feeling and color in affected areas. It most often affects the nose, ears, cheeks, chin, fingers, or toes. Frostbite can permanently damage the body, and severe cases can lead to amputation.

## What are the warning signs of frostbite?

At the first signs of redness or pain in any skin area, get out of the cold or protect any exposed skin—frostbite may be beginning. Any of the following signs may indicate frostbite:

- a white or grayish-yellow skin area
- skin that feels unusually firm or waxy
- numbness

**Note:** A victim is often unaware of frostbite until someone else points it out because the frozen tissues are numb.

## What should I do if I see someone with warning signs of frostbite?

If you detect symptoms of frostbite, seek medical care. Because frostbite and hypothermia both result from exposure, first determine whether the victim also shows signs of hypothermia, as described previously. Hypothermia is a more serious medical condition and requires emergency medical assistance.

If (1) there is frostbite but no sign of hypothermia and (2) immediate medical care is not available, proceed as follows:

- Get into a warm room as soon as possible.
- Unless absolutely necessary, do not walk on frostbitten feet or toes—this increases the damage.
- Immerse the affected area in warm—not hot—water (the temperature should be comfortable to the touch for unaffected parts of the body).
- Or, warm the affected area using body heat. For example, the heat of an armpit can be used to warm frostbitten fingers.
- Do not rub the frostbitten area with snow or massage it at all. This can cause more damage.
- Don't use a heating pad, heat lamp, or the heat of a stove, fireplace, or radiator for warming. Affected areas are numb and can be easily burned.

**Note:** These procedures are not substitutes for proper medical care. Hypothermia is a medical emergency and frostbite should be evaluated by a health care provider. It is a good idea to take a first aid and emergency resuscitation (CPR) course to prepare for cold-weather health problems. Knowing what to do is an important part of protecting your health and the health of others.

## What is the wind chill effect?

As the speed of the wind increases, it can carry heat away from your body much more quickly. When there are high winds, serious weather-related health problems are more likely, even when temperatures are only cool.

For a Wind Chill Chart (shows the difference between air temperature and perceived temperature and amount of time until frostbite occurs), Wind Chill Calculator, and information on the updated Wind Chill Temperature Index, see [www.nws.noaa.gov/om/windchill](http://www.nws.noaa.gov/om/windchill).

## Why are infants and older people most at risk for cold-related illness?

Infants lose body heat more easily than adults; additionally, infants can't make enough body heat by shivering. Infants less than one year old should never sleep in a cold room. Provide warm clothing and a blanket for infants and try to maintain a warm indoor temperature. If the temperature cannot be maintained, make temporary arrangements to stay elsewhere. In an emergency, you can keep an infant warm using your own body heat. If you must sleep, take precautions to prevent rolling on the baby. Pillows and other soft bedding can also present a risk of smothering; remove them from the area near the baby.

Older adults often make less body heat because of a slower metabolism and less physical activity. If you are more than 65 years of age, check the temperature in your home often during severely cold weather. Also, check on elderly friends and neighbors frequently to ensure that their homes are adequately heated.

## What should I do if I get stranded in cold weather?

- Tie a brightly colored cloth to the antenna as a signal to rescuers.
- Move anything you need from the trunk into the passenger area.
- Wrap your entire body, including your head, in extra clothing, blankets, or newspapers.
- Stay awake. You will be less vulnerable to cold-related health problems.
- Run the motor (and heater) for about 10 minutes per hour, opening one window slightly to let in air. Make sure that snow is not blocking the exhaust pipe—this will reduce the risk of carbon monoxide poisoning.
- As you sit, keep moving your arms and legs to improve your circulation and stay warmer.
- Do not eat unmelted snow because it will lower your body temperature.

## What is the best clothing for cold weather?

Adults and children should wear:

- a hat
- a scarf or knit mask to cover face and mouth
- sleeves that are snug at the wrist
- mittens (they are warmer than gloves)
- water-resistant coat and shoes
- several layers of loose-fitting clothing

Be sure the outer layer of your clothing is tightly woven, preferably wind resistant, to reduce body-heat loss caused by wind. Wool, silk, or polypropylene inner layers of clothing will hold more body heat than cotton. Stay dry—wet clothing chills the body rapidly. Excess perspiration will increase heat loss, so remove extra layers of clothing whenever you feel too warm. Also, avoid getting gasoline or alcohol on your skin while de-icing and fueling your car or using a snow blower. These materials in contact with the skin greatly increase heat loss from the body.

**Do not ignore shivering.** It's an important first sign that the body is losing heat. Persistent shivering is a signal to return indoors.

### **What should I eat and drink during periods of extreme cold?**

Eating well-balanced meals will help you stay warmer. Do not drink alcoholic beverages—they cause your body to lose heat more rapidly. Instead, drink warm, sweet beverages such as hot chocolate to help maintain your body temperature. If you have any dietary restrictions, ask your doctor.

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