

Work in the heat: managing risks

Heat is a hazard in many Australian workplaces, whether the work is indoors or outdoors. When the body cannot cool itself fast enough, a worker can suffer from heat-related illness.

The legislation does not set a 'stop work' temperature

A single 'stop work' temperature would not capture the range of factors that make working in the heat hazardous, such as humidity, air flow, the type of work, and whether controls can be implemented. In some workplaces, a 'heat clause' is included in employment agreements, however risks associated with heat still need to be managed so far as is reasonably practicable by the person conducting a business or undertaking (PCBU).

Ceasing unsafe work

A worker is entitled to cease, or refuse to carry out, work if they have a reasonable concern that performing the work would expose them to a serious risk to their health or safety arising from an immediate or imminent exposure to a hazard, including heat.

A health and safety representative (HSR) may also direct a worker within their represented work group to cease work if the HSR reasonably believes that carrying out the work would expose the worker to a serious risk to their health or safety arising from an immediate or imminent exposure to a hazard, including heat.

Heat-related illnesses ¹

Heat rash – a skin irritation caused by excessive sweating

Heat cramp – muscle pains or spasms, which can be a sign of heat exhaustion

Heat syncope – fainting or sudden dizziness caused by reduced blood flow

Heat hangover – a chronic illness that includes fatigue-like symptoms after repeated exposure to moderate to high temperatures

Heat exhaustion – a serious condition affecting the body's ability to cool itself, which can lead to heat stroke

Heat stroke – a medical emergency that needs urgent attention. The body's temperature rises above 40°C and its internal systems start to shut down



Heat risks are foreseeable

High outdoor temperatures and the associated risks of heat exposure are reasonably foreseeable. Reliable and accurate weather forecasts are generally available in advance, enabling heat-related risks to be anticipated before work is undertaken.

Given this foreseeability, and the duties imposed under the *Work Health and Safety Act 2012 (SA)*, PCBUs are expected to identify, assess, and implement appropriate control measures to eliminate or minimise heat-related risks so far as is reasonably practicable.

Assessing the risk

The impact of extreme temperatures on workers will depend on the individual worker, the work they are doing, and the environmental conditions. The Australian Institute of Occupational Hygienists recommends a three-stage approach to risk assessment. Please refer to page 10 of the [Guidance for Working in the Heat](#) document for the three-stage risk assessment flowchart.

Controlling the risk

A PCBU must first consider whether a risk can be completely eliminated from the workplace. If it is not reasonably practicable to eliminate the risk, the PCBU must minimise risks, as far as is reasonably practicable. This involves one or more of substituting the hazard, isolating the hazard, or implementing engineering controls.

If a risk then remains, the PCBU must minimise the remaining risk, so far as is reasonably practicable, by implementing administrative controls. For a remaining risk, the PCBU must ensure the provision and use of suitable personal protective equipment (PPE).

If you think someone has heat exhaustion or heat stroke, you should immediately call an ambulance and perform first aid until the ambulance arrives.

Resources and guidance

The Queensland Government's free [Heat Stress \(Basic\) Calculator](#) may assist HSRs, workers and PCBUs in identifying and managing heat-related risks. The calculator can be used as a supplementary tool to support the assessment of heat stress hazards in the workplace.

Control measure	Example
Elimination	Cancelling work tasks or waiting for hot conditions to pass
Substitution	Arranging for the work to be done by a machine (eg a forklift) rather than performing the task manually
Isolation	Isolating hot machinery or surfaces by using shields, barriers, and guards
Engineering controls	Providing air-conditioned, shaded, or cool break areas, as close as possible to the work site
Administrative controls	Training on the importance of hydration and recognising the symptoms of heat-related illness
Personal protective equipment	Loose-fitting, lightweight, breathable clothing

Read the guidance for more information on how to manage the risks of working in the heat



Government of South Australia
SafeWork SA

¹ Workplace Health and Safety Queensland, "Heat stress" <https://www.worksafe.qld.gov.au/safety-and-prevention/hazards/hazardous-exposures/heatstress>; Manal Azzi et al., eds., Heat at work: Implications for safety and health. A global review of the science, policy and practice (International Labour Organization, 2024), 5, 9.