AMENDED SECTION

AMENDATORY SECTION (Amending WSR 19-01-094, filed 12/18/18, effective 1/18/19)

WAC 296-62-09510 Scope and purpose. (1) WAC 296-62-095 through 296-62-09560 applies to all employers with employees performing work in an outdoor environment.

(2) The requirements of WAC 296-62-095 through 296-62-09560 apply to outdoor work environments from May 1 through September 30, annually, only when employees are exposed to outdoor heat at or above an applicable temperature listed in Table 1.

Table 1

To determine which temperature applies to each worksite, select
the temperature associated with the general type of clothing or
personal protective equipment (PPE) each employee is required to wear.

Outdoor Temperature Action Levels

((All other clothing	89°))
Nonbreathable clothes including vapor barrier elothing or PPE such as chemical resistant suits	<u>52° F</u>
Double layer woven clothes including coveralls, jackets and sweatshirts	77° <u>F</u>
(Nonbreathing clothes including vapor barrier clothing or PPE such as chemical resistant suits	52°))

All other clothing

89° F

Note: There is no requirement to maintain temperature records. The temperatures in Table 1 were developed based on Washington state data and ar not applicable to other states.

- (3) WAC 296-62-095 through 296-62-09560 does not apply to incidental exposure which exists when an employee is not required to perform a work activity outdoors for more than ((fifteen)) 15 minutes in any ((sixty-minute)) 60-minute period. This exception may be applied every hour during the work shift.
- (4) WAC 296-62-095 through 296-62-09560 supplement all industryspecific standards with related requirements. Where the requirements
 under these sections provide more specific or greater protection than
 the industry-specific standards, the employer must comply with the
 requirements under these sections. Additional related requirements are
 found in chapter 296-305 WAC, Safety standards for firefighters and
 chapter 296-307 WAC, Safety standards for agriculture.

 [Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and
 49.17.060. WSR 19-01-094, § 296-62-09510, filed 12/18/18, effective
 1/18/19; WSR 08-12-109, § 296-62-09510, filed 6/4/08, effective

AMENDED SECTION

AMENDATORY SECTION (Amending WSR 19-01-094, filed 12/18/18, effective 1/18/19)

WAC 296-62-09520 Definitions. (1) Acclimatization. The body's gradual temporary adaptation to work in heat that occurs as a person is exposed to it over ((time)) a period of seven to 14 days with a substantial amount of adaptation occurring in the first four to five days depending on the amount of recent work in the heat and individual factors. Acclimatization can be is lost after seven consecutive days a week away from working in the heat.

(2) Buddy system. A system where individuals are paired or teamed up into work groups so each employee can be observed by at least one other member of the group to monitor and report signs and symptoms of heat-related illness.

Double-layer woven clothing. Clothing worn in two layers allowing air to reach the skin. For example, woven coveralls worn on top of regular work clothes.

(3) Drinking water. Potable water that is suitable to drink and suitably cool in temperature. Other acceptable beverages include

Ddrinking water packaged as a consumer product, and electrolyte-replenishing beverages (i.e., sports drinks) that do not contain high

amounts of sugar, caffeine, or both such as energy drinks are acceptable.

- (4) Engineering controls. The use of devices to reduce exposure and aid cooling (i.e., air conditioning).
- eConditions that increase susceptibility for heat-related illness such as environmental factors (e.g. air temperature, relative humidity, radiant heat from the sun and other sources, conductive heat sources such as the ground, air movement), workload (i.e., ((heavy, medium, or lew)) light, moderate, or heavy) and work duration, and personal protective equipment and clothing worn by employees, and personal factors (e.g. age, medications, physical fitness, pregnancy).

 Measurement of environmental factors is not required by WAC 296-62-095.
- (6) Heat-related illness. A medical condition resulting from the body's inability to cope with a particular heat load, and includes, but is not limited to, heat cramps, heat rash, heat exhaustion, fainting, and heat stroke.
- (7) Outdoor environment. An environment where work activities are conducted outside. Work environments such as inside vehicle cabs, sheds, and tents or other structures may be considered an outdoor 5/31/2022 11:08 AM [4] NOT FOR FILING OTS-3780.3

environment if the environmental factors affecting temperature are not managed by engineering controls. Construction activity is considered to be work in an indoor environment when performed inside a structure after the outside walls and roof are erected.

- (8) Shade. A blockage of direct sunlight. One indicator that blockage is sufficient is when objects do not cast a shadow in the area of blocked sunlight. Shade is not adequate when heat in the area of shade defeats the purpose of shade, which is to allow the body to cool. For example, a car sitting in the sun does not provide acceptable shade to a person inside it, unless the car is running with air conditioning. Shade may be provided by any natural or artificial means that does not expose employees to unsafe or unhealthy conditions and that does not deter or discourage access or use.
- (9) Vapor barrier clothing. Clothing that significantly inhibits or completely prevents sweat produced by the body from evaporating into the outside air. Such clothing includes encapsulating suits, various forms of chemical resistant suits used for PPE, and other forms of ((nonbreathing)) nonbreathable clothing.

 [Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and

49.17.060. WSR 19-01-094, § 296-62-09520, filed 12/18/18, effective

1/18/19; WSR 08-12-109, § 296-62-09520, filed 6/4/08, effective 7/5/08.1

AMENDED SECTION

AMENDATORY SECTION (Amending WSR 08-12-109, filed 6/4/08, effective 7/5/08)

WAC 296-62-09530 Employer and employee responsibility. (1)Employers of employees exposed at or above temperatures listed in WAC $\frac{296-62-09510(2)}{2}$ Table 1 of this section must:

- (a1) Address their outdoor heat exposure safety program in their written accident prevention program (APP), in a language that employees understand. + ((and))
- (2) Ensure the outdoor heat exposure safety program contains, at minimum, the following elements:
 - (a) Procedures for providing sufficiently cool drinking water.
- (b) Procedures for providing shade or other sufficient means to reduce body temperature, including the location of such means and how employees can access them.

- (c) Emergency response procedures for employees demonstrating signs or symptoms of heat related illness.
 - (d) Acclimatization methods and procedures.
 - (e) High heat procedures.
- (f) The specific method used by the employer to closely observe employees for signs and symptoms of heat-related illness as required under WAC 296-62-09545 and WAC 296-62-09555(2).
- (3) Ensure a copy of the outdoor heat exposure safety program is made available to employees and their authorized representatives.
- (b4) Encourage employees to frequently consume water or other acceptable beverages to ensure hydration; and
- (e5) Encourage and allow employees to take a preventative cooldown rest period when they feel the need to do so to protect

 themselves from overheating using sufficient means to reduce body

 temperature such as shade or other equally or more effective means.

 The preventative cool-down rest period must be paid unless taken

 during a meal period. If an employee is showing signs or symptoms of heat-related illness during the cool-down rest period, the employer must comply with requirements under WAC 296-62-09550.

Note:

Agricultural workers paid on a piece rate basis must be separately compensated for rest breaks and piece rate down time. See Lopez Demetric v. Sakuma Brothers Farms Inc., 183 Wn.2d 649, 355 P.3d 258 (2015); Carranza v. Dovex Fruit Company, 190 Wn.2d 612, 416 P.3d 1205 (2018). For more information, see L&I Employment Standards Administrative Policy ES.C.6.2 at https://lni.wa.gov/workersrights/docs/csc6.2.pdf.

Table 1. To determine which temperature applies to each worksite, select the temperature associated with the general type of clothing or personal protective equipment (PPE) each employee is required to wear.

Non-breathable clothes including vapor barrier clothing or PPE such as chemical resistant suits	<u>52° F</u>
All other clothing	<u>80° F</u>

NOTE: There is no requirement to maintain temperature records.

The temperatures in Table 1 were developed based on Washington state data and are not applicable to other states.

(2) Employees are responsible for monitoring their own personal factors for heat-related illness including consumption of water or other acceptable beverages to ensure hydration, and taking preventative cool-down rest periods when they feel the need to do so to prevent from overheating.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 08-12-109, § 296-62-09530, filed 6/4/08, effective 7/5/08.]

AMENDED SECTION

NEW SECTION

WAC 296-62-09535 Access to shade. (1) Employers of employees exposed at or above temperatures listed in Table 1 of WAC 296-62-09530 must:

- (1) The employer must pProvide and maintain one or more areas with shade at all times while employees are present that are either open to the air or provided with ventilation or cooling, and not adjoining a radiant heat source such as machinery or a concrete structure. The shade must be located as close as practicable to the areas where employees are working.
- (2) The employer must eEnsure the amount of shade present is large at least enough to accommodate the number of employees on a meal or rest period, so that they can sit in a normal posture fully in the shade.
- (3) In lieu of shade, employers may use other means to reduce body temperature if they can demonstrate such means are equally or more effective than shade.

Note: Some alternatives to shade may include the provision of misting stations, cooling vests, and air-conditioned areas.

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AMENDED SECTION

AMENDATORY SECTION (Amending WSR 08-12-109, filed 6/4/08, effective 7/5/08)

WAC 296-62-09540 Drinking water. (1) Keeping workers hydrated in a hot outdoor environment requires that more water be provided than at other times of the year. Federal OSHA and research indicate that employers should be prepared to supply at least one quart of drinking water per employee per hour. When employee exposure is at or above an applicable temperature listed in WAC 296-62-09530 10(2) Table 1:

- (a) Employers must ensure that a sufficient quantity of suitably cool drinking water is readily accessible to employees at all times;
- (b) Employers must ensure that all employees have the opportunity to drink at least one quart of drinking water per hour.
- (2) Employers are not required to supply the entire quantity of drinking water needed to be supplied for all employees on a full shift at the beginning of the shift. Employers may begin the shift with smaller quantities of drinking water if effective procedures are established for replenishment during the shift.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 08-12-109, § 296-62-09540, filed 6/4/08, effective 7/5/08.]

AMENDED SECTION

NEW SECTION

to closely observe new employees and employees returning to work in hot conditions after a prolonged absence for signs and symptoms of heat-related illness for 14 days by implementing one or more of the close observation monitoring options under WAC 296-62-09555(3).

- (1) For 14 days when employees:
- (a) Are newly assigned to working at or above the applicable temperatures listed in Table 1 of WAC 296-62-09530;
- (b) Return to work at the applicable temperatures listed in Table 1 of WAC 296-62-09530 after an absence of seven days or more.
- (2) During a heat wave. For purposes of this section only, "heat wave" means any day in which the predicted high temperature for the day will be at least the temperatures listed in Table 1 of WAC 296-62-09530 and at least 10 degrees

 Fahrenheit higher than the average high daily temperatures in the preceding five days.

Close observation of employees is also encouraged during a sudden temperature increase relative to temperatures on previous days.

Note:

Employers may also consider additional acclimatization procedures recommended by NIOSH:

- $NIOSH\ Heat\ Stress:\ Acclimatization.\ https://www.cdc.gov/niosh/mining/userfiles/works/pdfs/2017-124.pdf$
- NIOSH Criteria for a Recommended Standard for Occupational Exposure to Heat and Hot Environments: https://www.cdc.gov/niosh/docs/2016-106/pdfs/2016-106.pdf?id=10.26616/NIOSHPUB2016106

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NEW SECTION

WAC 296-62-09550 Responding to signs and symptoms of heat related illness.

- (1) Ensure that effective communication by voice, observation, or electronic means is maintained so that employees at the work site and their supervisor can contact each other to report signs and symptoms of heat-related illness and get medical attention when necessary. An electronic device, such as a cellular phone or text messaging device, may be used for this purpose only if reception in the area is reliable.
- (2) Employees showing signs or demonstrating symptoms of heatrelated illness must be relieved from duty and provided with a
 sufficient means to reduce body temperature.

(3) Employees showing signs or demonstrating symptoms of heatrelated illness must be monitored to determine whether medical
attention is necessary.

AMENDED SECTION

NEW SECTION

when outdoor temperatures meet or exceed 89 degrees Fahrenheit. When the temperature is at or above 90 degrees Fahrenheit, the employer must implement the following high heat procedures, unless engineering or administrative controls are used to lower employees' exposure below 90 degrees Fahrenheit. (1) The employer must eEnsure that employees take mandatory cool-down rest periods of at least 10 minutes every two hours in the shade or using other equally or more effective means to reduce body temperature. The mandatory cool-down rest period may be provided concurrently with any meal or rest period required under WAC 296-126-092 and must be paid unless taken during a meal period.

(2) Ensure that effective communication by voice, observation, or electronic means is maintained so that employees at the work site and

their supervisor can contact each other when necessary. An electronic device, such as a cellular phone or text messaging device, may be used for this purpose only if reception in the area is reliable.

- (32) Effectively Closely observe employees for signs and symptoms of heat-related illness by implementing one or more of the following:
- (a) Regular communication with employees working alone such as by radio or cellular phone; or
 - (b) A mandatory buddy system; or
 - (c) Other effective means of observation.

Note: The employer may use engineering or administrative controls such as air conditioning or scheduling work at cooler times of day to reduce employees' exposure to a temperature below 90 degrees

Fahrenheit.

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AMENDED SECTION

AMENDATORY SECTION (Amending WSR 08-12-109, filed 6/4/08, effective 7/5/08)

WAC 296-62-09560 Information and training. All training must be provided to employees and supervisors, in a language and manner the employee or supervisor understands, prior to outdoor work where occupational exposure might occur which exceeds a temperature listed in WAC 296-62-09510(2) Table 1, and at least annually thereafter.

- (1) Employee training. Training on the following topics must be provided to all employees who may be exposed to outdoor heat at or above the temperatures listed in WAC 296-62-09510(2) Table 1:
- (a) The environmental factors and other work conditions (i.e. workload, work duration, personal protective equipment, clothing) that contribute to the risk of heat-related illness;
- (b) General awareness of personal factors that may increase susceptibility to heat-related illness including, but not limited to, an individual's age, physical fitness, degree of acclimatization, medical conditions, drinking water consumption, alcohol use, previous heat related illness, pregnancy caffeine use, nicotine use, and use of medications that affect the body's responses to heat. This information is for the employee's personal use;
- (c) The importance of removing heat-retaining personal protective equipment and clothing such as nonbreathable chemical resistant clothing during all breaks;

- (d) The importance of frequent consumption of small quantities of drinking water or other acceptable beverages;
- (e) The importance of acclimatization requirements under WAC 296-62-09545, the concept of acclimatization, and the importance of the following considerations: +
 - (i) Frequent cool-down rest periods;
 - (ii) Gradual increase of work duration in the heat;
- (iii) Employees are unable to build tolerance to working in the heat during a heat wave.
- (f) The importance of taking preventative cool-down rest periods when employees feel the need to do so in order to protect themselves from overheating;
- (g) The mandatory cool-down rest periods under WAC 296-62-09555 when the outdoor temperature reaches or exceeds 89 90 degrees Fahrenheit;
- (h) The employer's procedures for providing shade or other sufficient means to reduce body temperature, including the location of such means and how employees can access them;
- (i) The different types of heat-related illness, the common signs and symptoms of heat-related illness; ((and

- (g)) (j) The importance of immediately reporting signs or symptoms of heat-related illness in either themselves or in co-workers to the person in charge and the procedures the employee must follow including appropriate emergency response procedures; and
- (k) The employer's procedures for close ensuring effective
 observation and communication with of employees for signs and symptoms
 of heat-related illness.
- (2) Supervisor training. Prior to supervising employees working in outdoor environments with heat exposure at or above the temperature levels listed in WAC 296-62-09510(2) Table 1, supervisors must have training on the following topics:
- (a) The information required to be provided to employees listed in subsection (1) of this section;
- (b) The procedures the supervisor must follow to implement the applicable provisions of WAC 296-62-095 through 296-62-09560;
- (c) The importance of considering the use of engineering or administrative controls such as air conditioning and scheduling work during the cooler hours of the day in order to reduce employees' exposure to heat;

- (ed) The procedures the supervisor must follow if an employee exhibits signs or symptoms consistent with possible heat-related illness, including appropriate emergency response procedures; and
- (de) Procedures for moving or transporting an employee(s) to a place where the employee(s) can be reached by an emergency medical service provider, if necessary.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 08-12-109, § 296-62-09560, filed 6/4/08, effective 7/5/08.]