

HOUSE BILL 722

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CF SB 434

By: **Delegates Charkoudian, Brooks, Crutchfield, Cullison, Moon, Palakovich Carr, Rogers, Shetty, Stewart, Turner, Valderrama, and Wilkins**

Introduced and read first time: January 30, 2020

Assigned to: Economic Matters

A BILL ENTITLED

1 AN ACT concerning

2 **Labor and Employment – Occupational Safety and Health – Heat Stress**
3 **Standards**

4 FOR the purpose of requiring the Commissioner of Labor and Industry to adopt regulations
5 on or before a certain date that include a certain standard establishing certain heat
6 stress levels and to ensure that all employers comply with certain requirements with
7 respect to occupational exposure to excessive heat; requiring certain employers to
8 develop, implement, and maintain a certain excessive heat–related illness
9 prevention plan for employees; requiring that certain excessive heat–related illness
10 prevention plans be developed in a certain manner, tailored and specific to certain
11 hazards, in writing and in a certain language under certain circumstances, and made
12 available in a certain manner; requiring the plan to include certain procedures and
13 methods; requiring the Commissioner to require certain employers to provide certain
14 annual training and education to certain employees; requiring employers to provide
15 certain training and education to employees who are supervisors; requiring that
16 certain training be provided to certain employees at a certain time and in a certain
17 manner; requiring employers to maintain certain records and data and to make
18 certain records and data available to certain persons on request; requiring employers
19 to adopt a certain policy prohibiting certain persons from taking certain actions
20 against certain employees; prohibiting employers from taking certain actions against
21 certain employees for taking certain actions; providing for the construction of certain
22 provisions of this Act; defining certain terms; and generally relating to occupational
23 safety and health and heat stress standards.

24 BY repealing and reenacting, without amendments,
25 Article – Labor and Employment
26 Section 5–101
27 Annotated Code of Maryland
28 (2016 Replacement Volume and 2019 Supplement)

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.



1 BY adding to
2 Article – Labor and Employment
3 Section 5–1201 through 5–1203 to be under the new subtitle “Subtitle 12. Heat
4 Stress Standards”
5 Annotated Code of Maryland
6 (2016 Replacement Volume and 2019 Supplement)

7 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND,
8 That the Laws of Maryland read as follows:

9 **Article – Labor and Employment**

10 5–101.

11 (a) In this title the following words have the meanings indicated.

12 (b) “Commissioner” means the Commissioner of Labor and Industry.

13 (c) (1) “Employee” means, except as provided in § 5–401 of this title, an
14 individual whom an employer employs, for a wage or other compensation, in the business
15 of the employer.

16 (2) “Employee” includes:

17 (i) an individual whom a governmental unit employs;

18 (ii) an individual who is licensed as a taxicab driver and leases or
19 rents a taxicab from a person who operates or owns a taxicab business in Baltimore City;

20 (iii) an individual who is employed for part–time or temporary help
21 by a governmental unit or person who engages in a business that directly employs
22 individuals to provide part–time or temporary help to another governmental unit or person;
23 and

24 (iv) an individual who performs work for a governmental unit or
25 person to whom the individual is provided by another governmental unit or person who
26 engages in a business that directly employs individuals to provide part–time or temporary
27 help.

28 (d) (1) “Employer” means:

29 (i) except as provided in § 5–401 of this title, a person who is
30 engaged in commerce, industry, trade, or other business in the State and employs at least
31 one employee in that business; or

32 (ii) a public body.

1 (2) "Employer" includes:

2 (i) a person who operates or owns a taxicab business in Baltimore
3 City and leases or rents a taxicab to a licensed taxicab driver, to provide services to the
4 public;

5 (ii) a governmental unit or person who engages in a business that
6 directly employs individuals to provide part-time or temporary help to another
7 governmental unit or person; and

8 (iii) a governmental unit or person who contracts directly with
9 another governmental unit or person who engages in a business that directly employs
10 individuals to provide part-time or temporary help to another governmental unit or person.

11 (e) "Occupational safety and health standard" means a regulation that requires:

12 (1) a condition that is reasonably appropriate or necessary to make
13 employment and places of employment safe and healthful; or

14 (2) the adoption or use of a means, method, operation, practice, or process
15 that is reasonably appropriate or necessary to make employment and places of employment
16 safe and healthful.

17 (f) "Person" includes a successor.

18 (g) "Place of employment" means a place in or about which an employee is allowed
19 to work.

20 (h) "Public body" means:

21 (1) a governmental unit;

22 (2) a public or quasi-public corporation of the State;

23 (3) a school district in the State or any unit of the district; or

24 (4) a special district in the State or any unit of the district.

25 **SUBTITLE 12. HEAT STRESS STANDARDS.**

26 **5-1201.**

27 **(A) IN THIS SUBTITLE THE FOLLOWING WORDS HAVE THE MEANINGS**
28 **INDICATED.**

1 **(B) “EXCESSIVE HEAT” MEANS LEVELS OF OUTDOOR OR INDOOR EXPOSURE**
2 **TO HEAT THAT EXCEED THE CAPACITIES OF THE HUMAN BODY TO MAINTAIN**
3 **NORMAL BODY FUNCTIONS AND MAY CAUSE HEAT-RELATED INJURY, ILLNESS, OR**
4 **FATALITY.**

5 **(C) “HEAT-RELATED ILLNESS” MEANS A SERIOUS MEDICAL CONDITION**
6 **RESULTING FROM THE INABILITY OF THE BODY TO RID ITSELF OF EXCESS HEAT,**
7 **INCLUDING HEAT RASH, HEAT CRAMPS, HEAT EXHAUSTION, HEAT SYNCOPE, AND**
8 **HEAT STROKE.**

9 **(D) “HEAT STRESS” MEANS THE NET LOAD TO WHICH A WORKER IS EXPOSED**
10 **FROM THE COMBINED CONTRIBUTIONS OF METABOLIC HEAT, ENVIRONMENTAL**
11 **FACTORS, AND CLOTHING WORN THAT RESULTS IN AN INCREASE IN HEAT STORAGE**
12 **IN THE BODY, CAUSING BODY TEMPERATURE TO RISE TO SOMETIMES DANGEROUS**
13 **LEVELS.**

14 **5-1202.**

15 **ON OR BEFORE OCTOBER 1, 2022, THE COMMISSIONER SHALL ADOPT**
16 **REGULATIONS THAT:**

17 **(1) INCLUDE A STANDARD ESTABLISHING HEAT STRESS LEVELS FOR**
18 **EMPLOYEES THAT, IF EXCEEDED, TRIGGER ACTION TO PROTECT EMPLOYEES FROM**
19 **HEAT-RELATED ILLNESS; AND**

20 **(2) ENSURE ALL EMPLOYERS COMPLY WITH THE REQUIREMENTS**
21 **DESCRIBED IN THIS SUBTITLE WITH RESPECT TO OCCUPATIONAL EXPOSURE TO**
22 **EXCESSIVE HEAT.**

23 **5-1203.**

24 **(A) (1) EACH EMPLOYER SHALL DEVELOP, IMPLEMENT, AND MAINTAIN**
25 **AN EFFECTIVE EXCESSIVE HEAT-RELATED ILLNESS PREVENTION PLAN FOR**
26 **EMPLOYEES.**

27 **(2) THE PLAN REQUIRED UNDER PARAGRAPH (1) OF THIS**
28 **SUBSECTION SHALL BE:**

29 **(I) DEVELOPED AND IMPLEMENTED WITH THE MEANINGFUL**
30 **PARTICIPATION OF EMPLOYEES, EMPLOYEE REPRESENTATIVES, AND COLLECTIVE**
31 **BARGAINING REPRESENTATIVES, AS APPLICABLE;**

32 **(II) TAILORED AND SPECIFIC TO HAZARDS IN THE PLACE OF**

1 EMPLOYMENT;

2 (III) IN WRITING AND IN THE LANGUAGE UNDERSTOOD BY A
3 MAJORITY OF EMPLOYEES, IF THE LANGUAGE IS NOT ENGLISH; AND

4 (IV) MADE AVAILABLE, ON REQUEST, TO EMPLOYEES,
5 EMPLOYEE REPRESENTATIVES, AND THE COMMISSIONER.

6 (B) EACH PLAN REQUIRED UNDER SUBSECTION (A) OF THIS SECTION SHALL
7 INCLUDE PROCEDURES AND METHODS FOR:

8 (1) INITIAL AND REGULAR MONITORING OF EMPLOYEE EXPOSURE TO
9 HEAT TO DETERMINE WHETHER AN EMPLOYEE'S EXPOSURE HAS BEEN EXCESSIVE;

10 (2) PROVIDING POTABLE WATER WITH A TEMPERATURE OF LESS
11 THAN 15 DEGREES CELSIUS OR 59 DEGREES FAHRENHEIT;

12 (3) PROVIDING PAID REST BREAKS AND ACCESS TO SHADE,
13 COOL-DOWN AREAS, OR CLIMATE-CONTROLLED SPACES;

14 (4) PROVIDING AN EMERGENCY RESPONSE FOR ANY EMPLOYEE WHO
15 HAS SUFFERED INJURY AS A RESULT OF BEING EXPOSED TO EXCESSIVE HEAT;

16 (5) ACCLIMATIZING EMPLOYEES TO AREAS WHERE EXPOSURE TO
17 HEAT IS PRESENT;

18 (6) LIMITING THE LENGTH OF TIME AN EMPLOYEE MAY BE EXPOSED
19 TO HEAT DURING THE WORKDAY;

20 (7) IMPLEMENTING A HEAT ALERT PROGRAM TO PROVIDE
21 NOTIFICATION WHEN THE NATIONAL WEATHER SERVICE OR OTHER COMPETENT
22 WEATHER SERVICE FORECASTS THAT A HEAT WAVE IS LIKELY TO OCCUR IN THE
23 FOLLOWING DAY OR DAYS, INCLUDING:

24 (I) POSTPONING TASKS THAT ARE NOT URGENT UNTIL THE
25 HEAT WAVE IS OVER;

26 (II) INCREASING THE TOTAL NUMBER OF WORKERS TO REDUCE
27 THE HEAT EXPOSURE OF EACH WORKER;

28 (III) INCREASING REST ALLOWANCES;

29 (IV) REMINDING WORKERS TO DRINK LIQUIDS IN SMALL

1 AMOUNTS FREQUENTLY TO PREVENT DEHYDRATION; AND

2 (V) TO THE EXTENT PRACTICABLE, MONITORING THE
3 ENVIRONMENTAL HEAT AT JOB SITES AND RESTING PLACES;

4 (8) PREVENTING HAZARDS, INCLUDING THROUGH THE USE OF:

5 (I) ENGINEERING CONTROLS THAT INCLUDE THE ISOLATION
6 OF HOT PROCESSES, THE ISOLATION OF EMPLOYEES FROM SOURCES OF HEAT,
7 LOCAL EXHAUST VENTILATION, SHIELDING FROM A RADIANT HEAT SOURCE, THE
8 INSULATION OF HOT SURFACES, AIR CONDITIONING, COOLING FANS, EVAPORATIVE
9 COOLERS, AND NATURAL VENTILATION;

10 (II) ADMINISTRATIVE CONTROLS THAT LIMIT EXPOSURE TO A
11 HAZARD BY ADJUSTMENT OF WORK PROCEDURES OR WORK SCHEDULES, INCLUDING
12 ACCLIMATIZING EMPLOYEES, ROTATING EMPLOYEES, SCHEDULING WORK EARLIER
13 OR LATER IN THE DAY, USING WORK-REST SCHEDULES, REDUCING WORK INTENSITY
14 OR SPEED, CHANGING REQUIRED WORK CLOTHING, AND USING RELIEF WORKERS;
15 AND

16 (III) PERSONAL PROTECTIVE EQUIPMENT, INCLUDING
17 WATER-COOLED GARMENTS, AIR-COOLED GARMENTS, REFLECTIVE CLOTHING, AND
18 COOLING VESTS;

19 (9) COORDINATING RISK ASSESSMENT EFFORTS, PLAN
20 DEVELOPMENT, AND IMPLEMENTATION WITH OTHER EMPLOYERS WHO HAVE
21 EMPLOYEES WHO WORK AT THE SAME WORK SITE; AND

22 (10) ALLOWING EMPLOYEES TO CONTACT THE EMPLOYER DIRECTLY
23 AND EFFICIENTLY TO COMMUNICATE IF THE EMPLOYEE FEELS LIKE THE EMPLOYEE
24 IS SUFFERING FROM A HEAT-RELATED ILLNESS.

25 (C) THE COMMISSIONER SHALL REQUIRE AN EMPLOYER TO PROVIDE
26 ANNUAL TRAINING AND EDUCATION TO EMPLOYEES WHO MAY BE EXPOSED TO HIGH
27 HEAT LEVELS, INCLUDING TRAINING AND EDUCATION REGARDING:

28 (1) THE IDENTIFICATION OF HEAT-RELATED ILLNESS FACTORS;

29 (2) PERSONAL FACTORS THAT MAY INCREASE SUSCEPTIBILITY TO
30 HEAT-RELATED ILLNESS;

31 (3) SIGNS AND SYMPTOMS OF HEAT-RELATED ILLNESS;

1 **(4) DIFFERENT TYPES OF HEAT-RELATED ILLNESS;**

2 **(5) THE IMPORTANCE OF ACCLIMATIZATION AND CONSUMPTION OF**
3 **FLUIDS;**

4 **(6) AVAILABLE ENGINEERING CONTROL MEASURES;**

5 **(7) ADMINISTRATIVE CONTROL MEASURES;**

6 **(8) THE IMPORTANCE OF REPORTING HEAT-RELATED SYMPTOMS**
7 **BEING EXPERIENCED BY AN EMPLOYEE OR ANOTHER EMPLOYEE;**

8 **(9) RECORD-KEEPING REQUIREMENTS AND REPORTING**
9 **PROCEDURES;**

10 **(10) EMERGENCY RESPONSE PROCEDURES; AND**

11 **(11) EMPLOYEE RIGHTS.**

12 **(D) IN ADDITION TO THE TRAINING AND EDUCATION REQUIRED UNDER**
13 **SUBSECTION (C) OF THIS SECTION, THE EMPLOYER SHALL PROVIDE TRAINING AND**
14 **EDUCATION TO EMPLOYEES WHO ARE SUPERVISORS, INCLUDING TRAINING AND**
15 **EDUCATION REGARDING:**

16 **(1) PROPER PROCEDURES A SUPERVISOR IS REQUIRED TO FOLLOW**
17 **UNDER THIS SECTION WITH RESPECT TO THE PREVENTION OF EMPLOYEE EXPOSURE**
18 **TO EXCESSIVE HEAT;**

19 **(2) HOW TO RECOGNIZE HIGH-RISK SITUATIONS, INCLUDING HOW TO**
20 **MONITOR WEATHER REPORTS AND WEATHER ADVISORIES AND HOW TO AVOID**
21 **ASSIGNING AN EMPLOYEE TO A SITUATION THAT COULD PREDICTABLY**
22 **COMPROMISE THE SAFETY OF THE EMPLOYEE; AND**

23 **(3) PROPER PROCEDURES, INCLUDING EMERGENCY RESPONSE**
24 **PROCEDURES, TO FOLLOW WHEN AN EMPLOYEE EXHIBITS SIGNS OR REPORTS**
25 **SYMPTOMS CONSISTENT WITH POSSIBLE HEAT-RELATED ILLNESS.**

26 **(E) THE EDUCATION AND TRAINING REQUIRED UNDER THIS SECTION**
27 **SHALL:**

28 **(1) BE PROVIDED BY AN EMPLOYER FOR EACH NEW EMPLOYEE**
29 **BEFORE STARTING A JOB ASSIGNMENT;**

1 **(2) PROVIDE EMPLOYEES OPPORTUNITIES TO ASK QUESTIONS,**
2 **PROVIDE FEEDBACK, AND REQUEST ADDITIONAL INSTRUCTION, CLARIFICATION, OR**
3 **OTHER FOLLOW-UP;**

4 **(3) BE PROVIDED IN-PERSON BY AN INDIVIDUAL WITH KNOWLEDGE**
5 **OF HEAT-RELATED ILLNESS PREVENTION AND OF THE PLAN OF THE EMPLOYER**
6 **REQUIRED UNDER SUBSECTION (A) OF THIS SECTION; AND**

7 **(4) BE APPROPRIATE IN CONTENT AND VOCABULARY TO THE**
8 **LANGUAGE, EDUCATIONAL LEVEL, AND LITERACY OF THE EMPLOYEES.**

9 **(F) EACH EMPLOYER SHALL:**

10 **(1) MAINTAIN AT ALL TIMES:**

11 **(I) RECORDS RELATED TO EACH PLAN OF THE EMPLOYER**
12 **REQUIRED UNDER SUBSECTION (A) OF THIS SECTION, INCLUDING HEAT-RELATED**
13 **ILLNESS RISK AND HAZARD ASSESSMENTS AND IDENTIFICATION, EVALUATION,**
14 **CORRECTION, AND TRAINING PROCEDURES;**

15 **(II) DATA ON ALL HEAT-RELATED ILLNESSES AND DEATHS THAT**
16 **HAVE OCCURRED AT THE PLACE OF EMPLOYMENT; AND**

17 **(III) DATA ON ENVIRONMENTAL AND PHYSIOLOGICAL**
18 **MEASUREMENTS RELATED TO HEAT; AND**

19 **(2) MAKE THE RECORDS AND DATA AVAILABLE, ON REQUEST, TO**
20 **EMPLOYEES AND THEIR REPRESENTATIVES, AND TO THE COMMISSIONER FOR**
21 **EXAMINATION AND COPYING.**

22 **(G) (1) EACH EMPLOYER SHALL ADOPT A POLICY PROHIBITING ANY**
23 **PERSON, INCLUDING AN AGENT OF THE EMPLOYER, FROM DISCRIMINATING OR**
24 **RETALIATING AGAINST AN EMPLOYEE FOR:**

25 **(I) EXERCISING THE RIGHTS OF THE EMPLOYEE UNDER THIS**
26 **SECTION; OR**

27 **(II) REPORTING VIOLATIONS OF THIS SECTION TO THE FEDERAL**
28 **GOVERNMENT, THE STATE, OR A LOCAL GOVERNMENT.**

29 **(2) AN EMPLOYER MAY NOT DISCRIMINATE OR RETALIATE AGAINST**
30 **AN EMPLOYEE FOR:**

1 **(I) REPORTING A HEAT-RELATED ILLNESS CONCERN TO, OR**
2 **SEEKING ASSISTANCE OR INTERVENTION WITH RESPECT TO HEAT-RELATED**
3 **HEALTH SYMPTOMS FROM, THE EMPLOYER, LOCAL EMERGENCY SERVICES, THE**
4 **FEDERAL GOVERNMENT, THE STATE, OR A LOCAL GOVERNMENT; OR**

5 **(II) EXERCISING ANY OTHER RIGHTS OF THE EMPLOYEE UNDER**
6 **THIS SECTION.**

7 **(H) THIS SECTION MAY NOT BE CONSTRUED TO DIMINISH THE RIGHTS,**
8 **PRIVILEGES, OR REMEDIES OF ANY EMPLOYEE UNDER A COLLECTIVE BARGAINING**
9 **AGREEMENT.**

10 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect
11 October 1, 2020.