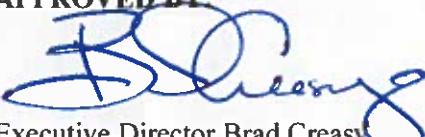


# VIRGINIA DEPARTMENT OF FIRE PROGRAMS POLICY AND PROCEDURE

	<b>SUBJECT:</b> Extreme Weather Policy		<b>P&amp;P 03.01.01</b>
	<b>CATEGORY:</b> Safety and Risk Management		<b>PAGE 1 OF 5</b>
	<b>APPROVED BY:</b>  Executive Director Brad Creasy <b>DEPARTMENT OF FIRE PROGRAMS</b>		<b>EFFECTIVE DATE:</b> 08/27/2025 <b>REVISION DATE:</b>
	<b>FORMS REQUIRED:</b>		

## I. BACKGROUND

This policy shall serve as a guide to staff and instructors in making reasonable judgments and decisions with regard to outdoor training activities under extreme weather conditions.

## II. PURPOSE

It is the responsibility of each instructor to monitor weather conditions and use the following guidelines to adjust or cancel related activities as conditions warrant. It is also the responsibility of the instructor to monitor students individually during extreme weather conditions, such as age, physical condition, and other factors may influence an individual's limitations to physical activity. VDFP Staff reserves the right to cancel or modify classes where weather conditions may be of concern.

The heat and wind chill indexes developed by the National Weather Service will be used as the guide for determining extreme heat and cold conditions. Weather information local to the class site should be used. Where VDFP courses are being conducted in jurisdictions that have established more stringent weather policies with regard to training or outdoor activities, those policies shall be followed.

## III. APPLICABILITY

This policy applies to all VDFP personnel to include full-time staff, P14s and adjunct instructors who assist in delivering VDFP training.

## IV. POLICY

1. Extreme Heat
  - a. Outside training activities requiring physical activity or full protective clothing shall not be conducted when the heat index reaches more than 110°F.

<b>SUBJECT:</b> Extreme Weather	<b>EFFECTIVE DATE:</b> 8/27/2025 <b>REVISION DATE:</b>	<b>P&amp;P</b> 03.01.01
<b>CATEGORY:</b> Safety and Risk Management	<b>SUBCATEGORY:</b> Safety Procedures	<b>Page 2 of 5</b>

Consideration should be given to the factors that full protective clothing may add 10° to the heat index value, and age/physical condition of individual students may affect susceptibility to heat disorders. Direct sunlight may also add an additional 10° to the heat index value. Where the heat index is between 100° and 110° F, conditions may be considered hazardous. The instructor shall use discretion with regard to outside activity cancellation/modification (other factors such as time of day and type of activity may influence the instructor's decision). Outside training activities, requiring physical activity or full protective clothing, may be conducted under the following conditions:

2. Live-fire and structural burns should be evaluated case by case. Activities other than live firefighting can be safely conducted with reduced protective clothing (i.e., helmet, gloves, and boots or safety shoes). An adequate supply of cool drinking water is available at the training site. Strenuous physical activity is monitored and limited to 15 to 20 minutes. A rehabilitation area is established for rest and rehydration (a cool, shady area is preferred).

<b>SUBJECT:</b> Extreme Weather	<b>EFFECTIVE DATE:</b> 8/27/2025 <b>REVISION DATE:</b>	<b>P&amp;P</b> 03.01.01
<b>CATEGORY:</b> Safety and Risk Management	<b>SUBCATEGORY:</b> Safety Procedures	<b>Page 3 of 5</b>

## NOAA's National Weather Service

### Heat Index

Temperature (°F)

Relative Humidity (%)	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	129	134
48	80	82	84	87	89	93	96	100	104	109	114	119	124	129	134	139
56	81	83	85	88	91	95	99	103	108	113	118	124	131	137	143	149
64	81	84	86	89	93	97	101	106	112	117	124	130	137	143	149	155
72	82	84	88	91	95	100	105	110	116	123	129	137	144	151	158	165
80	82	85	89	93	98	103	108	114	121	128	136	143	150	157	164	172
88	83	86	90	95	100	105	112	119	126	134	142	150	158	166	174	182
96	84	88	92	97	103	109	116	124	130	138	146	154	162	170	178	186
104	84	88	94	100	106	113	121	129	137	145	153	161	169	177	185	193
112	85	90	96	102	108	115	122	130	138	146	154	162	170	178	186	194
120	86	91	98	105	113	122	130	139	148	157	166	175	184	193	202	211
128	86	93	100	108	117	125	133	142	151	160	169	178	187	196	205	214
136	87	95	103	112	121	130	139	148	157	166	175	184	193	202	211	220
144	87	95	103	112	121	130	139	148	157	166	175	184	193	202	211	220
152	87	95	103	112	121	130	139	148	157	166	175	184	193	202	211	220
160	87	95	103	112	121	130	139	148	157	166	175	184	193	202	211	220

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

Classification	Heat Index	Effect on the body
Caution	80°F - 90°F	Fatigue possible with prolonged exposure and/or physical activity
Extreme Caution	90°F - 103°F	Heat stroke, heat cramps, or heat exhaustion possible with prolonged exposure and/or physical activity
Danger	103°F - 124°F	Heat cramps or heat exhaustion likely, and heat stroke possible with prolonged exposure and/or physical activity
Extreme Danger	125°F or higher	Heat stroke highly likely

The Heat Index is a measure of how hot it really feels when relative humidity is factored in with the actual air temperature.

### 3. Extreme Cold

- Wind chill factors may vary depending on the training location's proximity to wind barriers. Frostbite is possible at temperatures less than 0 degrees F and temperatures are considered dangerous at 20 degrees F. Outside training activities should not be conducted when the wind chill factor is less than 20 degrees F, unless:
  - Students are properly dressed for an appropriate cold weather activity.
  - The cold weather will not affect the safe and proper function of tools, equipment, and apparatus.
  - An adequate supply of warm liquids and/or food is available at the training site.

<b>SUBJECT:</b> Extreme Weather	<b>EFFECTIVE DATE:</b> 8/27/2025 <b>REVISION DATE:</b>	<b>P&amp;P</b> 03.01.01
<b>CATEGORY:</b> Safety and Risk Management	<b>SUBCATEGORY:</b> Safety Procedures	<b>Page 4 of 5</b>

- iv. Strenuous physical activity is monitored and limited to 15 to 20 minutes.
- v. A heated indoor rehabilitation area is in close proximity to the training site.
- vi. When conducting outside training activities in temperatures where climbing/walking surfaces are subject to freezing and may create a slip hazard, Instructors shall exercise due caution.



## Wind Chill Chart



Wind (mph)	Temperature (°F)																		
	40	36	30	26	20	16	10	6	0	-4	-10	-16	-20	-26	-30	-36	-40	-45	
5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63	
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72	
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77	
20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81	
25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84	
30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87	
35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89	
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91	
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93	
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95	
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97	
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-56	-62	-69	-76	-84	-91	-98	

Frostbite occurs in 15 minutes or less

$$\text{Wind Chill (°F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

Where, T = Air Temperature (°F)

V = Wind Speed (mph)

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<b>CATEGORY:</b> Safety and Risk Management	<b>SUBCATEGORY:</b> Safety Procedures	<b>Page 5 of 5</b>

4. Instructors shall modify and/or cancel outside training activities accordingly for other extreme weather-related conditions. These conditions include but are not limited to high winds, snow, or snow on ground, ice, sleet, hail, rain, lightning (can resume training outdoors 30 minutes after last thunder heard), thunderstorm warnings, and tornado warnings.
  
5. Instructors assigned to VDFP training programs should coordinate decisions on class cancellation or activities in extreme weather-related conditions with both the local representative and the assigned VDFP Division Chief. While instructor and student safety is primary, the desires of the host locality and the employee/student situation will affect any decisions