

Heat Stress Management

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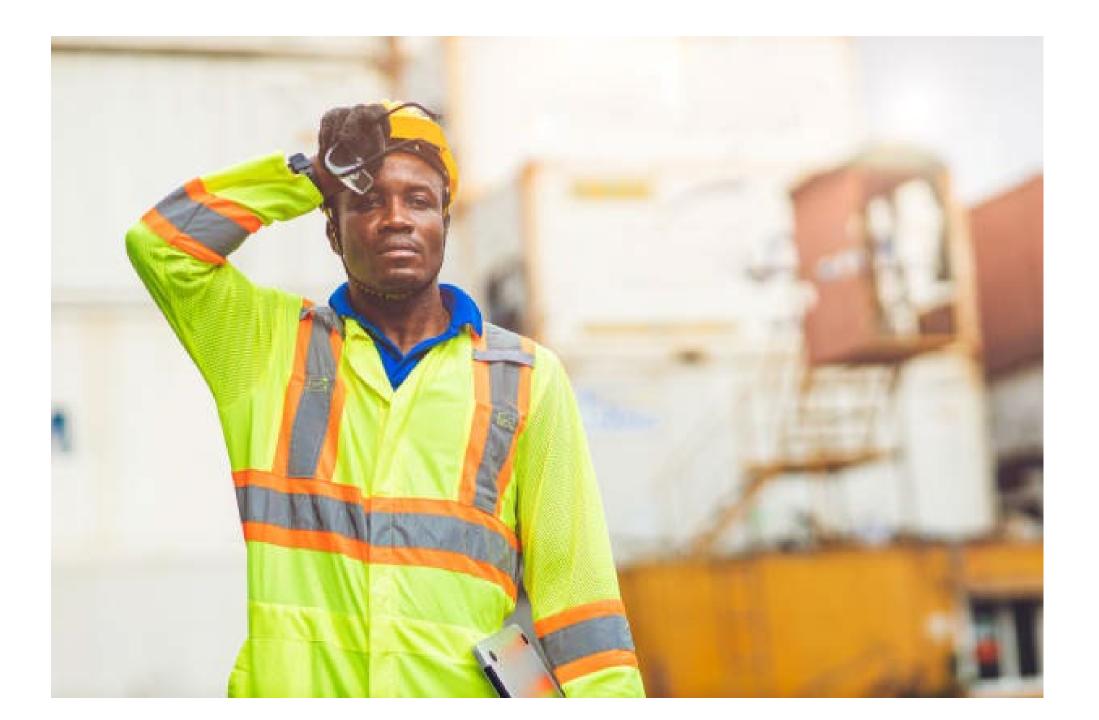
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Meaning of Heat Stress

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Heat Stress and People at Risk

• For Individuals working in extremely warm or hot

environment, heat stress is more than a minor

incovenience if not controlled

Incerse and strenous work put individuals at

Wearing Personal Protective Equipment

Contributing Factors

Environmental factors

- Temperature
- Humidity
- Radiant heat (hot equipment, vessels and sun)
- Air movement
- Clothing
- Work rate (difficulty of work)

Personal factors

- Age
- Body Weight
- Fitness
- Acclimatization or

intolerance – working in a

hot environment for

prolonged period

Effects of Heat Stress on the Body

- Heat Rash
- Heat Cramp
- Heat Stroke
- Heat Exhaustion









Assessment, Monitoring, Hierarchy of Controls and Management

Assessment and Monitoring of Heat Stress

Acclimatization

Screening Methods

Risk Assessment

QUESTemp^e 32 Thermal Environment Mor

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V0 Enter Setup WBGT Index

ACGIH TLVs – Action Limits & TLVs

WGBT Action Limits °C

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Allocation of	Workload			
work in work cycle	Light	Moderate	Heavy	V ery heavy
75% to 100%	28.0	25.0	-	-
50% to 75%	28.5	26.0	24.0	-
25% to 50%	29.5	27.0	25.5	24.5
0 to 25%	30.0	29.0	28.0	27.0

WGBT TLVs °C

Allocation of work in work cycle	Workload			
	Light	Moderate	Heavy	Very Heavy
75% to 100%	31.0	28.0	-	-
50% to 75%	31.0	29.0	27.5	-
25% to 50%	32.0	30.0	29.0	28.0
0 to 25%	32.5	31.5	30.5	30.0

Hierarchy of Control

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Prevention

Engineering Ventilation, Air cooling, Fans, Scheduling & Insulation

Administrative Controls, Work Practices

PPE

Administrative Controls and Organizational Practices

Time	Reduce exposure time Job rotation Work – rest regimes Work scheduling
Distance	Segregation Restrict access Rest areas
Organisation	Reduce numbers exposed Good working practice Written procedures "Permits to work"

More management measures

Screening & health surveillance

Information, instruction, training

Supervision

Self regulation

Provide water

Cooling vest





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Heat Stress -Management Programme

Procedures (Health Safety Management Systems)	Supervision	Maintenance
Auditing	Health surveillance	Monitoring
Information	Training	Housekeeping

About WHWB

Workplace Health Without Borders' vision is a world where workers, their families and communities do not get ill because of their work. Our mission is to prevent work-related disease around the world through shared expertise, knowledge and skills.



Imagine a world where everyone goes home at least as healthy as when they came to work.

- A non-profit international organization
- Registered as a charity in Canada
- Engages volunteers to address workplace health issues around the world
- Join WHWB: <u>www.whwb.org</u>
- Volunteer we need help with projects, communications, fundraising
- Participate in our monthly teleconferences
- email: info@whwb.org / whwb-uk@whwb.org

Thank you