## Infographic Heat Stress An Indoor and Outdoor Concern **RISK FACTORS**

The three main factors that contribute to heat experienced by workers are:



THERMAL ENVIRONMENT **OF WORKPLACE** 





Working in hot environments can increase the risk of heat-related injuries and illness.

In order to protect workers from heat stress, it is important to assess the risk level associated with the type of work being performed.

## But first a bit about: **Metabolic Rate** FOOD Our bodies use the food As we use that energy, it is that we consume to measured as a metabolic rate in produce energy. watts (W), or kilocalories (kcal) / hour. Based on the metabolic rate associated with work activities, different types of work are classified as: **LIGHT WORK MODERATE WORK HEAVY WORK VERY HEAVY WORK** REST 115 W 115 – 235 W 235 - 360 W 360 - 470 W >470 W 310-404 kcal/h >404 kcal/h 99 kcal/h 99-202 kcal/h 202 – 310 kcal/h

See the types of work associated with each classification on the following page.



## Heat Stress Assessment cont.

Job / Work Classifications		
REST	<ul><li>Sitting</li><li>Laying</li></ul>	
LIGHT WORK	<ul> <li>Standing</li> <li>Driving</li> <li>Occasional walking</li> <li>Using a table saw</li> </ul>	<ul> <li>Operating a crane, hoist, or other air-conditioned vehicle</li> <li>Welding (light production in shop)</li> </ul>
MODERATE WORK	<ul> <li>Walking at a normal pace</li> <li>Laying brick</li> <li>Hammering nails</li> <li>Mail delivery services</li> <li>Tying rebar</li> <li>Welding (on-site or field service)</li> <li>Raking asphalt</li> </ul>	<ul> <li>Sanding drywall</li> <li>Removing staking marks</li> <li>Manual shotcrete</li> <li>Long-hole drilling</li> <li>Heavy machinery production drilling</li> <li>Production ore transportation</li> <li>Carpentry assembly</li> </ul>
HEAVY WORK	<ul> <li>Walking at a fast pace</li> <li>Shoveling dry sand</li> <li>Sawing by hand</li> <li>Laying block or stone</li> <li>Asbestos removal</li> </ul>	<ul> <li>Rock Drill operators</li> <li>Heavy equipment mechanic</li> <li>Mowing (push lawn mower)</li> <li>Carpentry installation</li> </ul>
VERY HEAVY WORK	<ul> <li>Shoveling wet sand</li> <li>Lifting heavy objects</li> <li>Manual bolting</li> </ul>	<ul> <li>Mechanical and pipe installation</li> <li>Working with an axe</li> <li>Gardening or digging</li> </ul>
When assessing the metabolic rate associated with the kind of work being performed, the following factors should also be taken into consideration:Image: Work being be		
HEAT STRESS Toolkit	to	her infographics in this series, or learn more about working in the neat, see our Heat Stress Toolkit:

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