



MARITIME AND PORT AUTHORITY OF SINGAPORE

PORT MARINE NOTICE  
NO. 086 OF 2019

15 Sep 2019

Shipping Community  
Harbour Craft Community

## **HAZE ALERT – 24-HOUR PSI LEVEL 101 TO 200**

- 1. It has been reported that the average 24-hour PSI level is between 101 and 200. This PSI level range is considered as unhealthy.**
- Shipping & Harbour Craft communities, shipowners, shipping agents, terminal operators and marine service providers are advised to monitor the PSI level through media.
- Employers are advised to monitor their outdoor workers and follow guidelines provided by Ministry of Manpower (MOM). Guidelines for employers on protecting employees from the effects of haze can be found in the following MOM's website:  
<https://www.mom.gov.sg/haze/guidelines-on-protecting-employees-from-haze>
- The attached table provides an overview of guidelines for employers on protecting employees from the effects of haze.

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## OVERVIEW OF GUIDELINES FOR EMPLOYERS ON PROTECTING EMPLOYEES FROM THE EFFECTS OF HAZE [UPDATED 12 SEP 2019]

The complete guidelines for employers on protecting employees from the effects of haze can be found in the following website: <https://www.mom.gov.sg/haze/guidelines-on-protecting-employees-from-haze>

24-Hour PSI	Healthy employees	Elderly, pregnant employees	Employees with chronic lung disease, heart disease	General measures to be taken by employers
≤100 (Good/Moderate)	Normal activities	Normal activities	Normal activities	<ul style="list-style-type: none"> <li>Initiate preparatory measures to protect the safety and health of employees against the effects of haze</li> </ul>
101-200 (Unhealthy)	Reduce prolonged or strenuous outdoor work	Minimise prolonged or strenuous outdoor work	Avoid prolonged or strenuous outdoor work	<ul style="list-style-type: none"> <li>Take risk mitigating measures such as use of mechanical aids, job rotation, instituting indoor rest breaks, ensuring adequate hydration etc</li> </ul>
201-300 (Very Unhealthy)	Avoid prolonged or strenuous outdoor work	Minimise outdoor work	Avoid outdoor work	<ul style="list-style-type: none"> <li>Take risk mitigating measures such as use of mechanical aids, job rotation, instituting indoor rest breaks, ensuring adequate hydration etc</li> <li>If prolonged or strenuous outdoor work is not avoidable, and an employer still requires an employee to do so due to extenuating circumstances, masks should be provided</li> </ul>
> 300 (Hazardous)	Minimise outdoor work	Avoid outdoor work	Avoid outdoor work	<ul style="list-style-type: none"> <li>Take additional risk mitigating measures such as job redeployment, reducing the intensity and duration of outdoor work, institute regular breaks or deferment of non-essential jobs.</li> <li>If outdoor work is not avoidable, and an employer still requires an employee to do so due to extenuating circumstances, masks or appropriate respirators should be provided</li> <li>Risk assessment should consider the additional risk posed by poor visibility for work activities such as lifting operations involving tower and mobile cranes</li> </ul>

Prolonged = continuous exposure for several hours  
 Strenuous = involving a lot of energy or effort  
 Reduce = do less  
 Minimise = do as little as possible  
 Avoid = do not do