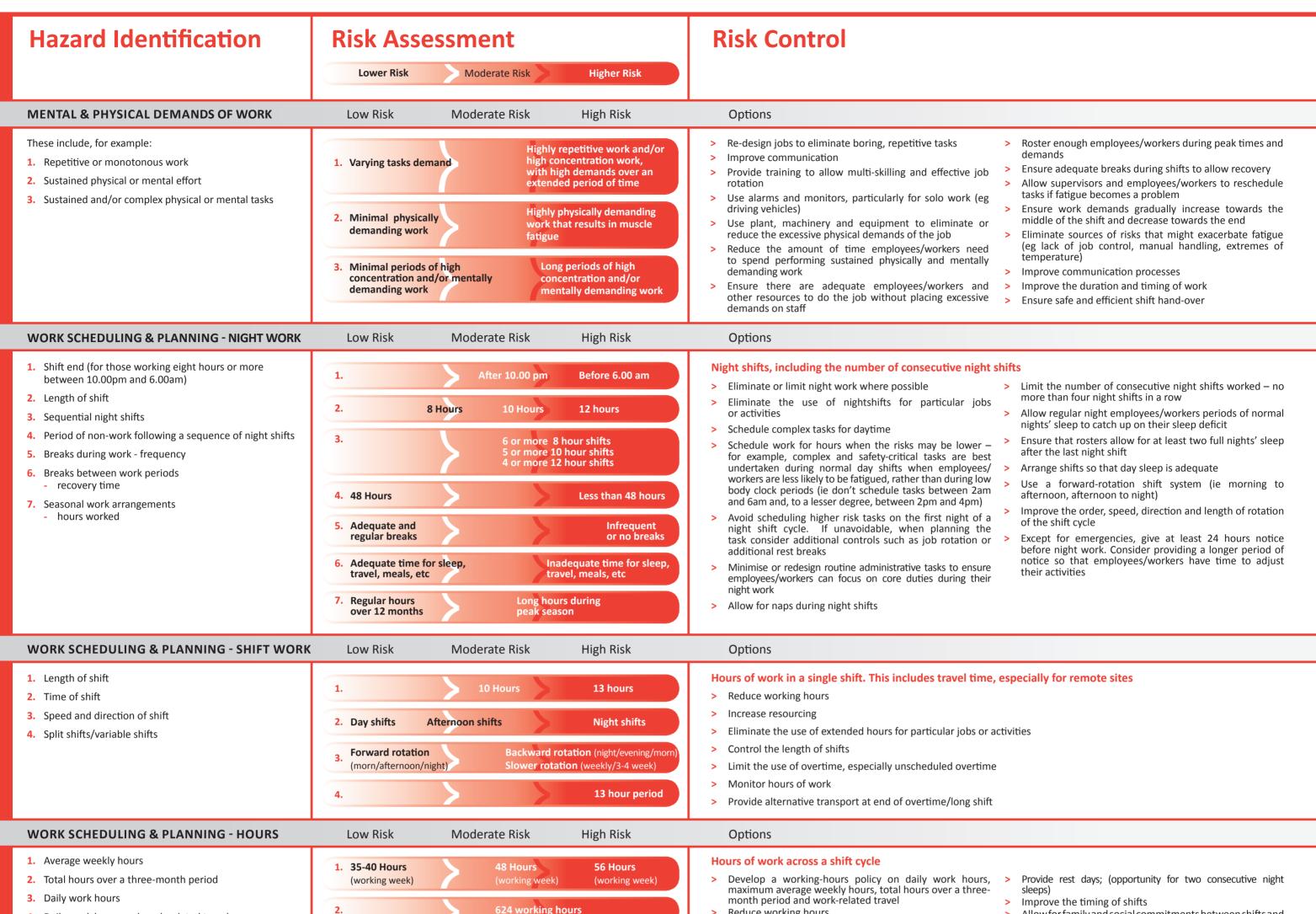
## **Fatigue Chart**



<ol> <li>Daily work hours</li> <li>Daily work hours and work-related travel</li> <li>Scheduling of work</li> </ol>	2.       624 working hours         3.       9 working hours       12 working hours         4.       10 working hours       13 working hours         5.       Regular and predictable hours       Irregular and unpredictable hours, short notice of schedule, extended overtime on call across shift cycle	<ul> <li>maximum average weekly hours, 'total hours over a three-month period and work-related travel</li> <li>Reduce working hours</li> <li>Reduce the number of consecutive day shifts that can be worked</li> <li>Eliminate or reduce the need to work long shifts for more than four consecutive days</li> <li>Allocate shift employees/workers consecutive days off, including some weekends, depending upon their fatigue risk level</li> <li>Aloade shift employees/workers consecutive days off, including some weekends, depending upon their fatigue risk level</li> <li>Avoid working arrangements that provide incentives to work excessive hours</li> <li>Control overtime, shift swapping and on-call duties</li> <li>Offer alternatives to employees/workers who may have difficulties adjusting to working hours</li> <li>Limit use of standby and on-call duties</li> <li>Ensure that exchange of shifts does not result in excessive hours</li> <li>Ensure that responding to emergencies does not result in excessive hours</li> <li>Ensure that responding to emergencies does not result in excessive hours</li> <li>Increase the length of breaks between shifts</li> <li>Allow for recovery between work periods</li> <li>Defer non-urgent work to allow appropriate rest and recuperation for employees/workers</li> <li>Defer non-urgent work to allow appropriate rest and recuperation for employees/workers</li> <li>Match shift trosters ahead of time and avoid sudden changes of shifts to allow employees/workers to plan leisure time</li> <li>Reduce irregular and unpredictable work schedules</li> </ul>
EXCESSIVE COMMUTING TIMES NECESSARY	Low Risk Moderate Risk High Risk	Options
	Minimal commuting time Long commuting time	<ul> <li>Start work at long distance commute sites on the day after arrival and start travel home on the day after the shift cycle is finished</li> <li>Assist with travel arrangements, eg provide transport</li> <li>Reduce active working time to account for long commuting time or distance</li> </ul>
WORK ENVIRONMENT CONDITIONS	Low Risk Moderate Risk High Risk	Options
<ol> <li>Exposure to hazardous substances and atmospheric contaminants</li> <li>Exposure to noise</li> <li>Exposure to extreme temperatures</li> <li>Exposure to vibration</li> <li>Effect of exposure during extended shifts</li> </ol>	1. For hazardous substances, low risk calculated using national exposure       For hazardous substances high risk calculated using national exposure         2. Low risk calculated according to formulae in AS/NZS 1269.1       High risk calculated according to formulae in AS/NZS 1269.1         3. Minimal exposure       Long period exposure         4. Minimal exposure       Long period exposure         5. Minimal exposure       High exposure	<ul> <li>Hours of work across a shift cycle</li> <li>Stress</li> <li>Improve job control and the other risk factors associated with stress</li> <li>Ensure opportunities to clarify stress-related issues</li> <li>Physical conditions</li> <li>Avoid working during periods of extreme temperature</li> <li>Control exposure to hazardous substances and environments</li> <li>Provide effective protective clothing and equipment, allowing for different shifts.</li> <li>Use heating and cooling to control ambient temperatures to support alertness</li> <li>Provide effectives and cooling to control ambient temperatures</li> <li>Use heating and cooling to control ambient temperatures</li> <li>Use heating and cooling to control ambient temperatures</li> <li>Marcel and secure</li> <li>Provide adequate facilities for rest, sleep, meal breaks, onsite accommodation (if appropriate) and other essential requirements, such as bathroom facilities</li> <li>Install adjustable, vibration-free seats in appropriate machinery and vehicles</li> <li>Ensure the workplace and surroundings are well lit, safe and secure</li> <li>Employees/workers who perform repetitive manual tasks should have regular rest breaks</li> <li>Ensure exposures are carefully monitored and exposure levels adjusted. For example, exposure during a 10-hour shift may not equate to 1.25 times the exposure experienced during an eight-hour shift</li> </ul>
INDIVIDUAL & NON-WORK FACTORS	Low Risk Moderate Risk High Risk	Options
<ol> <li>Sleep (amount and quality)</li> <li>Health</li> <li>Fitness for work</li> <li>Lifestyle factors</li> </ol>	1. Night sleep 8 hours night sleep (in 24 hours)       Day sleep 6 hours night sleep (in 24 hours)         2.       Poor diet Recent illness/injury Sleep disorders         3.       Influence of alcohol, drugs or amount of sleep         4.       Activities/responsibilities that limit amount of sleep, eg second job or long commute	<ul> <li>Maintain vigilance in identifying non-work related factors</li> <li>Subsidise modifications to private homes to improve sleeping conditions (eg air conditioning)</li> <li>Provide information and education about how non-work related factors can increase the risks of fatigue</li> <li>Provide a mechanism to encourage employees/workers to report non-work factors that might affect fatigue management</li> </ul>