

Preventing Emergency Responder Fatigue

Workers may be at risk of experiencing injuries from fatigue and stress during responses to oil spills, hazardous materials cleanup activity, and other large-scale disaster response and recovery operations. This also includes virtual and hybrid workers.

What is Fatigue?

Fatigue is extreme tiredness resulting from mental or physical exertion or illness, which can result in a lack of energy or motivation.

People with fatigue may experience a wide range of symptoms such as feeling drowsy, constantly yawning, falling asleep at work, difficulty concentrating, reduced judgment, slow reflexes, and unplanned absence.

Risk Factors that Increase Fatigue

- Working long hours, consecutive days, and varied shifts
- High temperatures, humidity, and sun exposure
- Wearing personal protective equipment (PPE)
- Exposure to traumatic events
- Taking certain medications when working in hot temperatures
- Alcohol and/or drug use
- Underlying medical condition
- Physically demanding or strenuous work
- Insufficient or fragmented sleep
- No breaks or short breaks
- Long commutes/long travel to worksite and/or changes in time zone

Virtual/Hybrid Work Considerations:

- Workers continuing to work both their day-today jobs and supporting the response
- Working longer hours due to different time
- Contributions may be omitted or are viewed as less valuable given the lack of face-to-face interactions
- Feelings of isolation, frustration, and lack of separation of home life from work

How Does Fatigue Affect Workers?

- Reduced attention or concentration
- Irritability
- Limited short-term memory
- Impaired decision making
- Increased absences
- Slower reaction times

Virtual/Hybrid Work Considerations:

- o Eye strain and blurred vision
- Feeling emotionally or mentally drained after numerous video or phone calls
- Impaired ability to handle work responsibilities
- o Lack of focus or forgetfulness



How Does Fatigue Affect the Workplace?

- Decreased alertness, concentration, and memory
- Increased risk of injuries
- Reduced productivity
- Elevated costs

Virtual/Hybrid Work Considerations:

- o Decreased engagement
- o Negative attitudes toward meetings and work
- o Poor team dynamics
- o Difficulties in communication
- Team burnout

What Can Employers Do?

- Complete an Assessment of Hazards and Work Activities
- Implement a Fatique Risk Management Plan
- Train employees on Fatigue and Managing Sleep Disorders
- Examine staffing issues (i.e., workload and hours)
- Arrange schedules to include breaks and sleep
- Schedule worker's leave (i.e., take 48 hours of time off after working 12 hours a day for 14 days)
- Plan demanding work around weather conditions
- Rotate personnel during strenuous or detailed tasks
- Acclimatize new workers using the "Rule of 20 Percent"¹
- Returning workers to hot temperatures after an absence of one week or more need to be re-acclimated
- Establish work teams or a buddy system
- Assign a safety professional to monitor workers
- Provide air-conditioned or shaded areas for breaks and cool water for workers to drink
- Provide employees with procedures for monitoring personnel for fatigue signs and symptoms

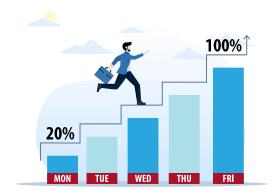


Figure 1 The Rule of 20 Percent

Virtual/Hybrid Work Considerations:

- o Establish set work hours for virtual response support
- Adjust virtual response support staff work hours to accommodate different time zones
- o Encourage remote workers to take their scheduled rest breaks throughout a work shift
- o Fully "deploy" to the response remotely, instead of supporting one's day-to-day work and the response simultaneously

¹ For additional information on the "Rule of 20 Percent", visit <u>Heat - Protecting New Workers | Occupational Safety and Health Administration (osha.gov)</u>.



What Can Workers Do to Protect Themselves?	
	Know the signs and symptoms of fatigue
	Monitor yourself and your coworkers
	Use a buddy system during work hours and while commuting to/from worksites
zzz	Get 7-9 hours of sleep a day without disruptions
	Eat a balanced diet and maintain a healthy weight
	Hydrate by drinking water or other electrolyte-containing fluids
	Take scheduled rest breaks
11	Exercise regularly

Additional Resources

- > <u>Guidance for Managing Worker Fatigue During Disaster Operations</u>
- > Work and Fatigue (NIOSH-CDC)
- > Long Work Hours, Extended, or Irregular Shifts, and Worker Fatigue (OSHA)