

What is a Health Risk Assessment?

To ensure that appropriate controls are in place to protect against adverse exposure. In practice, the Health Risk Assessment involves disturbilityin placelth hazards, evaluating the risk to health, and effectively controlling exposure and monitoring the health of individuals involved in the work activities.

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suddon injury, whereas health hazards have the potential to cause latent occupational illness, varying degrees of disability and Approach to Health Risk Assessment and the guideline should be used in conjunction with his too. Below is an example of the RHA overview template. The Health Hazards are fixed, the exposure group fields are EXAMPLES ONLY. Each asset will need to determine the relevant exposure groups and whether exposure is result of the normal duties, non-routine or protice activities of the joc (V) or not expected (M). It is then necessary to create a tab for each exposure group where the detailed health risk assessment is completed. In this tool the The remainder of the base within this workbock provide detailed assessments of each exposure group. The process includes:

1) identification of the hazard.

2) blentification of the hazard.

3) blentification of consequence without controls in place and the associated inherent risk;

3) Details on the current controls;

4) Assessment of the Residual Risk with the current controls in place

EXAMPLE HRA OVERVIEW Health Hazards (ALL MUST BE CONSIDERED) Hazard Types
Legenz
Physical Chemical C Others Higher ris

				Likelihood		
		1	2	3	4	5
Impact		Never occurred in the industry	Occurred in industry before but never in Crossrail	Occurred more than once per year in the industry, but rarely in Crossrail	Occurred more than once a year in industry and in Crossrail	Common in the Industry and in Crossrail, occurring several time per year
		Highly unlikely	Unlikely	Possible	Likely	Highly likely
5	Multiple fatalities >5	L3	L3	L4	L5	L5
4	Few fatalities (1-5)	L3	L3	L3	L4	L5
3	Multiple LTIs, injury or illness resulting in permanent disability	L3	L3	L3	L3	L4
2	Single LTI, injury or illnesses resulting in temporary disability	L2	L3	L3	L3	L3
1	Medical treatment or restricted workday case	L1	L2	L3	L3	L3

High	Unacceptable risk: Exposure exceeds WELs. Not adequately controlled. Further risk reduction is urgently required. Focused HRA should be conducted.
Medium	Unacceptable risk: There is some degree of control, exposure could exceed the WELs. Further risk mitigation is required and must be implemented. Focused HRA should be conducted.
Low	Acceptable risk: Risk is controlled, ie. exposure is below the WELs but must be monitored for change
Inconclusive	Inconclusive risk: Insufficient information available to make a conclusion. A focused HRA should be conducted.
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HSxx_Fatigue Risk Assessment Tool.xlsx HRA Pre Requisites

Considerations

The following considerations are the good practices that any Site/Department would have in place before and during the health risk assessment process, which are essential to manage and monitor the hazards and protect health:

Work-related

- Training and competence e.g. fatigue awareness, fatigue risk assessment and fatigue monitoring
- Monitoring and enforcing of control measures e.g. rest breaks,
- Medical emergency response planning
- Routine health assessments e.g. CBH health assessment, including sleep disorder assessment and night workers health assessments
- Routine inspections
- Audit protocols internal
- Incident reporting and investigation
- Occupational illness and absence reporting

Non work related

- Training Fatigue and sleep management
- Good sleep hygiene e.g. managing social interference, prepare bedroom, diet and exercise

Location: Exposure Group: Assessment Conducted by: Title: Safety Advisor Title: Safety Advisor

WORKING HOURS Overtime >2 hours, length of shift above target, hours working in seven day periods exceed 60, number of hours rest in 24/48 hours exceeds target, number of	Potential Consequence Excessive fatigue affecting performance and increasing	ent Risk L Risk		Residu			Action		Reduce Ris	Health Surveillance/Monitoring Requirements
WORKING HOURS Overtime >2 hours, length of shift above target, hours working in seven day periods exceed 60, number of hours rest in 24/48	Excessive fatigue affecting	RISI					A	l arget Date	Status/Date	
consecutive shifts (5 days or 3 nights), changes in shift start time (frequent), rest after block of nights or early shifts <2days	risk of incident		Limit overtime to 2 hours Day shift 12 hours, night/early shift 10 hours Maximum 60 hours per week, 2 days rest after block of consecutive nights, Limit shifts to 5 consecutive 12 hour day shifts and 10 hour night shifts, forward rotating shift pattern,	1 1	- Kis	First night shift limited to 8 hours	Owner			(Detail transferred to the Health improvement
WORK ENVIRONMENT Temperature extremes, noise exposure, vibration exposure, light <6000 lux, workstation set up poor, welfare facilities Imited access, work related driving, comfort too high	Excessive fatigue affecting performance and increasing risk of incident		Temperature, noise and vibration controlled, lighting assessment and plan in place, re-design of workstation, increased welfare facilities, driver risk assessment and monitoring			Supervision				eni
WORK ACTIVITIES Workload demand and capacity extrmely demanding, continuous attention, few or nobreaks, safety /business critical work (1am - 3pm, 2pm - 4pm), monotonous, repetitive, physically or mental demanding work, unplanned work, unrealistic time constraints and lack of resources	Excessive fatigue affecting performance and increasing risk of incident		Review of work plans, rostered breaks			Supervision		0		
WORK PRACTICES Overtime expectation, frequent roster changes, annual leave not taken, poor absence management, no training and supervision	Excessive fatigue affecting performance and increasing risk of incident		Limit overtime, Planning to reduce roster changes, monitor annual leave, agency cover for absences, fatigue awareness training			Fatigue awareness trainning for supervisors				
FITNESS FOR WORK Health assessment night workers and shift workers, good diet and hydration, lifestyle risk management, experience of shift work, exercise, sedative and stimulants, sedentary, health conditions	Excessive fatigue affecting performance and increasing risk of incident		Health assessment procedure and schedule - night workers, shift workers, individual fatigue risk assessment questionnaire, fatigue training - employee responsibilities, D&A testing, referral to occupational health			Monitor outcome of health assessment				
SLEEP - Quality & Quantity Number of hours sleep, inducing sleep, wakefulness, sleep before first night, total sleep in 24 hours, napping	Excessive fatigue affecting performance and increasing risk of incident		Awareness training and tracking, supervisor training in fatigue assessment							
NON WORK RELATED FACTORS Family, friends and neghbours, social commitments, preparation for sleep - self and bedroom, commute, exercise and food, accommodation	Excessive fatigue affecting performance and increasing risk of incident		Monitor commute time, provide accommodation, awareness training			Review commute time				

Personnel Involved in Review: Enter names here....

Date Review Completed: Enter date of review here

Unacceptable risk: Exposure exceeds OELs. Not adequately controlled. Further risk reduction is urgently required. Focused HRA should be conducted. Unacceptable risk: There is some degree of control, exposure could exceed the OELs. Further risk mitigation is required and must be implemented. Focused HRA should be conducted. Acceptable risk: Risk is controlled, i.e., exposure is below the OELs but must be monitored for change Inconclu Inconclusive risk: Insufficient information available to make a

conclusion. A focused HRA should be conducted.

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Hierarchy of controls

- 1. Elimination remove the hazard entirely;
- 2. Substitution replace the original substance or process with one less hazardous;
- 3. Technical or Engineering control
 - o Containment and isolation the hazard, though present is contained to reduce exposure e.g. e.g. contained sampling equipment
- Cocal exhaust ventilation e.g. fume cupboard;
 Administrative/management control
- - o Modification –changing work patterns, reduce duration and frequency of exposure by job rotation o Working procedures and job instructions

 - o Signage
 o Training –hazard and associated risks;
- 4. Personal protective equipment (PPE)

HSxx_Fatigue Risk Assessment Tool.xlsx Fatigue TRA

Health Risk Assessment (Example only) Fatigue

	n:	Exposure Group: Electricians	•		71000	ssment Conducted by:		.	alety	y Advisor				
scrip	tion of tasks:													
						Current Risk Assessment						Controls to	Reduce Ris	
	Hazard	Potential Consequence	Int	<u>neren</u>	t Risk Risk	Current Controls		idual L			Action Owner	Target Date	Status/Date	Health Monitoring Requirements (Detail transferred to the Health improvement plants
	WORKING HOURS Overtime >2 hours, length of shift above target, hours working in seven day periods exceed 60, number of hours rest in 24/48 hours exceeds target, number of consecutive shifts (6 days or 3 nights),	Excessive fatigue affecting performance and increasing risk of incident	4			Limit overtime to 2 hours Day shift 12 hours, night/early shift 10 hours Maximum 70 hours per week, 1 days rest after block of consecutive nights, Forward rotating shift pattern, No young persons working on site	4	3		Increased supervision, Increase sign off for work completed,	- Gwilei			ansierred to the freath improvement y
	WORK ENVIRONMENT Temperature extremes, noise exposure, vibration exposure, light <6000 lux, workstation set up poor, welfare facilities Imited access. work related driving. comfort	Excessive fatigue affecting performance and increasing risk of incident	2	4	L3	Work clothing and PPE to control temperative, noise, inclement weather and vibration, Job rotation, Well lit canteen	2	3	L3	Supervision		Š		
en e	WORK ACTIVITIES Workload demand and capacity extrmely demanding, continuous attention, few or nobreaks, safety /business critical work (1am - 3am, 2pm - 4pm), monotonous, repetitive, physically or mental demanding work, unplanned work, unrealistic time constraints and lack of resources	Excessive fatigue affecting performance and increasing risk of incident	1	4	L3	Review of work plans, Hazards identified - <i>controls in place</i> , Control of work tasks - <i>to be deterimned</i> , Rostered breaks	1	3	L3	Supervision, No safety critical tasks between 1am - 3am and 2pm - 4pm, Increase electricians on duty, Task rotation		3		
FATIGUE	WORK PRACTICES Overtime expectation, frequent roster changes, annual leave not taken, poor absence management, no training and supervision	Excessive fatigue affecting performance and increasing risk of incident	3	4	L3	Liimt overtime and complete exceedance form, Planning to reduce roster changes, monitor annual leave, agency cover for absences, fatigue awareness training, Good communication,	3	3	L3	Fatigue awareness trainning for supervisors				
	FITNESS FOR WORK Health assessment night workers and shift workers, good diet and hydration, lifestyle risk management, experience of shift work, exercise, sedative and stimulants, sedentary, health conditions	Excessive fatigue affecting performance and increasing risk of incident	4	4	L4	Health assessment for all. Increase random D&A testing, individual fatigue risk assessment questionnaire at start of shift pattern and then 3 monthly - referral to occupational health if required, fatigue training - employee responsibilities,	4	3		Monitor outcome of health assessment				Individual fatigue risk assessment questionnal at start of shift pattern and then 3 monthly
	SLEEP - Quality & Quantity Number of hours sleep, inducing sleep, wakefulness, sleep before first night, total sleep in 24 hours, napping	Excessive fatigue affecting performance and increasing risk of incident	4	4	L4	Awareness training and tracking, supervisor training in fatigue assessment	4	3	L4	Increased supervision, Monitor quality of fatigue assessment				
	NON WORK RELATED FACTORS Family, friends and neighbours, social commitments, preparation for sleep - self and bedroom, commute, exercise and food, accommodation	Excessive fatigue affecting performance and increasing risk of incident	3	3	L3	Monitor commute time, provide accommodation, awareness training	3	2	L3	Review commute times				
			$\overline{}$							1	1	i		·

Date Review Completed: Enter date of review here

	L4-5	Unacceptable risk: Exposure exceeds OELs. Not adequately controlled. Further risk reduction is urgently required. Focused HRA should be conducted.
	L3	Unacceptable risk: There is some degree of control, exposure could exceed the OELs. Further risk mitigation is required and must be implemented. Focused HRA should be conducted.
I	L1-2	Acceptable risk: Risk is controlled, i.e exposure is below the OELs but must be monitored for change
	Inconclu sive	Inconclusive risk: Insufficient information available to make a conclusion. A focused HRA should be conducted.

- 1. Elimination remove the hazard entirely;
- 2. Substitution replace the original substance or process with one less hazardous;
- 3. Technical or Engineering control
- Containment and isolation the hazard, though present is contained to reduce exposure e.g. e.g. contained sampling equipment o Local exhaust ventilation e.g. fume cupboard;

 3. Administrative/management control
 Modification –changing work patterns, reduce duration and frequency of exposure by job rotation
 Working procedures and job instructions
- o Signage
 o Training –hazard and associated risks;

 4. Personal protective equipment (PPE)

Individual fatigue risk assessment

cation:	Assessment Conducted by:							
ite:	Title:							
ne: sessment type:	Name of employee: Self Random Reasonable Suspicion	n For Cau	160					
ork schedule:	Planned Call out Extended h		ise					
Stan 4 Observation								
Step 1 Observation								
Is there a significant change	e in the persons behaviour:	Yes	No					
Physical symptoms Bloodshot eyes Slower movements		Yes	No					
	Slower movements	Yes	No					
	Poor co-ordination Slower than normal responses	Yes Yes	No No					
Cognitive function	Distracted from task	Yes	No					
	Poor concentration/lapses in concentration	Yes	No					
	Doesn't complete tasks	Yes	No					
	Short term memory loss (forgets instruction)	Yes	No					
	Nodding off occasionally	Yes	No No					
Emotion/Motivation	Fixed gaze and/or reports blurred vision Seems depressed	Yes Yes	No					
Emotion/wotivation	Irritable	Yes	No					
	Doesn't care anymore	Yes	No					
	Easily frustrated with tasks	Yes	No					
	If 3 or more indicators are present, proceed to step 2							
Step 2 Risk								
Has a fatigue related incider		Yes	No					
	by another person) been identified as a fatigue risk?	Yes Yes	No No					
Is there a risk associated with the person's functioning/behaviour? (i.e. risk to self, others or If yes, what is the level of risk? (your best estimate)		High Mode						
	If you form the view that the risk is unacceptable, proceed to St							
<u> </u>	in you form the view that the next is unacceptable, proceed to de	.op 0						
Sten 3 Conversation								
Step 3 Conversation	2.0							
Step 3 Conversation Insight/Understanding	What is the person's explanation of what you have observed?							
Step 3 Conversation Insight/Understanding	What is the person's explanation of what you have observed?							
Insight/Understanding								
Step 3 Conversation Insight/Understanding Sleep	How many hours since they last slept?	hou						
	How many hours since they last slept? How long did they sleep?	hou	irs					
	How many hours since they last slept? How long did they sleep? Have they experienced a recent change in their sleeping							
	How many hours since they last slept? How long did they sleep?	hou	irs					
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Sleep	How many hours since they last slept? How long did they sleep? Have they experienced a recent change in their sleeping habits? Is there a reason/s for not enough sleep or poor sleep?	hou Yes	irs No					
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Work Breaks Personal responsibility	How many hours since they last slept? How long did they sleep? Have they experienced a recent change in their sleeping habits? Is there a reason/s for not enough sleep or poor sleep? What tasks have they been working on this shift? Are those tasks "high risk" for fatigue? E.g. repetitious or in hot conditions? If Yes, how long have they been working on that task? When did they last have a break in shift? How long was the break? When did they last drink water or eat something? What do they usually do to prevent fatigue? A decision is now required on whether intervention is needed on the level of risk associated with this person's continuing without intervention? If that risk is unacceptable, what steps need to be taken to minimise the immediate risk? a. Task rotation option b. Short break option c. Go home option Has this person been associated with previous fatigue issues? Follow up procedures: First occasion – deal with it informally, but record incident	Yes Yes Yes Yes Yes Yes Yes	No No No No No No					
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Work activities

Normal - demands	Increase demands	Abnormal demands	Excessive demands
Workload - extremely	· Workload - Moderately	· Workload – moderately demanding	· Workload – extremely
undemanding, lots of spare	undemanding, some spare capacity	– little spare capacity	demanding, no spare capacity
capacity			
· Continuous attention – rarely,	· Continuous attention – some	· Continuous attention – most of the	· Continuous attention – all or
nearly none of the time	of the time	time	nearly all of the time
· Ability to take regular breaks in	· Rest breaks (20 minutes	· Safety critical/business critical work	 Unrealistic time constraints
well-lit area with access to water.	uninterrupted if working over 6	between 2pm -4pm or 1am-3am	
	hours)		
	· Safety critical/business critical	· Monotonous, repetitive, physically	· Lack of resources
		and mentally demanding	
		 Unplanned work 	

Working practices - controls

Normal – Usual Working hours	Moderate control	Limited control	Poor control
· Limited overtime	Occasional overtime, under 2 hours per shift to cover increased workload and unplanned leave Absence managed with short term increase in demand		Regular overtime, exceeding 2 hour per shift for workload demands and emergencies
Absence managed and workload reviewed	Excessive hours monitored with minimal consequences	Absence not managed and demand increased	· Leave not taken
· Monitor excessive hours	· Leave taken on block	Excessive hours monitored with no consequences	No supervision or training
· Leave taken regularly	 Roster changes made infrequently 	Roster changes made regularly	
Protocol in place and followed for roster changes	· One-off training	· Limited training and supervision	
Regular training and supervision	Supervision for high risk activities		

Fitness for work

Normal – health management	Moderate impact	Increasing impact	High impact
· Regular health assessment for	· Health assessment for night	· Previous health assessment – not	· Sedentary role and lifestyle
night workers and shift workers to	workers only with general health	shift work specific	
monitor for sleep related disorders	assessment for shift workers		
i.e. shiftwork sleep disorder,			
insomnia, sleep apnoea			
· Health assessment includes	· Sleep related health condition,	· Newly diagnosed health condition	· No health assessment
monitoring of potential long term	well managed		
health effects ie digestive			
problems, heart disease, stress and			
mental illness			
 Balanced diet and good 	 Limited access to healthy 	Poor diet and occasional	 Undiagnosed sleep related
hydration by staff	eating options and fluids	dehydration	health condition
 Lifestyle risk management by 	· Occasional use of stimulants	 Regular use of stimulants or 	· Long term health condition not
staff ie drugs, alcohol, smoking and	(caffeine, smoking) or sedatives	sedatives	managed
exercise	(sleeping tablets)		
1	New to shiftwork	 No regular exercise 	

Sleep – quality and quantity

Sleep – quanty and quantity									
Healthy sleep	Moderate sleep	Unhealthy sleep	Poor sleep						
· Regularly sleep 7 or more hours	· Sleep 4-7 hours a night	· Sleep 4-7 hours a night	· Sleep less than 4 hours a night						
a night									
· Fall asleep within 10 minutes	· Less than 6 hours in previous	· Less than 12 hours sleep in previous	· No napping						
	24 hour period	48 hours							
No extended periods of	· Take more than 30 minutes to	· Awake for over 16 hours							
wakefulness	fall asleep								
· Slept 2-3 hours before night	 Occasional periods of 	 Difficulty falling and staying asleep, 							
shift	wakefulness	waking tired							
· Total sleep in 24 hours of 7-9	· Had a rest before work	 Stress affecting quality of sleep 							
hours		most nights							
	· Healthy naps of 20-30 minutes	· Unhealthy napping of 2-3 hours on							
		day shift or days off							

Non work related factors

Normal	Moderate impact	Increasing impact	High impact
· Minimal disturbance from	· Occasional disturbance from	 Living in multiple occupancy 	· Poor relationship with
family, friends and neighbours	family, friends and neighbours	accommodation	neighbour
No social commitments impacting on sleep opportunity	· Occasional social commitments impacting on sleep opportunity	· Numerous family and social commitments	 Driving home after shifts/night work
· Relax ready for sleep	· No bedtime routine	Strenuous exercise or large meal within 2 hours of sleep	
· Bedroom prepared for good	· Bedroom too light, noisy or	 Driving home at end of shift 	
sleep	hot/cold and bed not comfortable	patterns (lodgings during shift patterns)	
	 Long commute to work – public transport 		