

Sun Safety for Outdoor Workers: UV Risk Assessment

Outdoor workers are at high risk of developing skin cancer because they are exposed to up to 10 times more UV radiation from the sun than indoor workers.^{1,2}

Outdoor workers are defined as people required to work outdoors during daylight hours.³ Exposure is cumulative and irreversible, so each time workers are exposed they are increasing their risk of skin cancer.

This UV Risk Assessment Tool is aimed at a nominated supervisor or champion noting that executive leadership and management support is essential for sustainable change to occur.

It is designed to be used in combination with Cancer Council's Implementation Guide.

Following completion of this Tool it is recommended you commit to a new sun safe Action Plan.

Use this Risk Assessment Tool to help you determine where the greatest risk of UV radiation is in yourworkplace, your current sun safety control measures, and to priotise strategies.

^{3.} Cancer Institute NSW. Working together – NSW skin cancer prevention strategy 2023-2030. Sydney: Cancer Institute NSW, 2023.



Resource adapted with permission from Cancer Council NSW.

^{1.} Gies P, Wright J. Measured solar ultraviolet radiation exposures of outdoor workers in Queensland in the building and construction industry. Photochemistry and Photobiology. 2003;78(4):342-8.

² Kimlin, M.G., Parisi, A.V. & Wong, J.C.F. (1998). Quantification of personal solar UV exposure of outdoor workers, indoor workers and adolescents at two locations in Southeast Queensland. Photodermatology, Photoimmunology & Photomedicine, 14, 7-1.



Tips for completing the UV Risk Assessment

- Consider if you will be assessing one or multiple worksites or job types.
 - If assessing multiple worksites with similar environments and practices, you can complete one overall assessment. Alternatively, you can complete one assessment per site.
 - If assessing multiple job types, consider grouping those outdoor workers with similar patterns of outdoor work.
- To help gain organisational buy in:
 - Involve your WH&S representative in the assessment.
 - Consult with a cross section of workers to learn about their needs, opinions and attitudes towards sun safety and the risks they may face.
 - Use these insights to guide your understanding of the risks.
- To learn more about UV radiation and workplaces, refer to Cancer Council's <u>Skin cancer and outdoor work A work health and safety guide.</u>
- Consider how addressing some UV radiation risks can also reduce the risk of heat stress.



SITE ASSESSMENT	DETAILS		
Single site		Multiple sites	
Name of site(s):			
Job title(s) assessed:			
		Date:	
WH&S representative involvement	ent? 🗌 Yes 📗 No		
If yes, WH&S representative nan	ne		
1. Identify where	the greatest U	V radiation risks are in	your workplac
		V radiation risk. These factors are known to n others, which is emphasised by the points	
Some factors may need mo	ore than one box ticked. In th	nis case, use the box with the highest poir	nts in your subtotals.
Add up each subtotal for environment the level of risk for each factor, a		hazardous factors. Once completed, you vour workplace.	will have an understanding of
		t Work Canada: UV risk assessment: operati	ional review.
1. ENVIRONMENTAL	FACTORS		
How much time is spent in the swithout window tinting): UV ro	sun (including in vehicles idiation is highest in middle	Altitude of worksite: Higher a UV rating than lower altitudes.	ltitudes have a higher
of the day and during summer m		☐ More than 1500m	10 Very high
☐ All day	25 Severe	1000-1500m	8 High
☐ 10am-3pm	20 Very high	500-1000m	6 High
☐ 8am-10am	15 High	Less than 1500m	2 Moderate
☐ 3pm-5pm	15 High	Latitude: Locations closer to t	ho oquator havo higher
☐ Before 8am	5 Moderate	UV radiation levels.	rie equator riave riigriei
After 5pm	5 Moderate	QLD, NT, mid-north WA	12 Severe
☐ At night	0 Nil	☐ Mid-North NSW & SA	10 Very high
C	I - XX/A I IX/ I*- I* *-	☐ VIC, Mid South WA	8 High
Season when work takes place: In WA UV radiation is high enough to damage unprotected skin most months of the year.		TAS	4 Moderate
☐ All year	50 Severe		
Summer	40 Very high		
Autumn/spring	20 High		
☐ Winter	10 Moderate	Total Environmental Factors:	

 $^{^{*}}$ Locations are indicative only. UV radiation is affected by several factors including geographic location, time of day and cloud cover.

2. WORK SYSTEM FACTORS Sunburn from work activities: Sunburn can take 24 hours Shade during work: Good quality shade can reduce UV radiation exposure by up to 75% and reduce heat stress. to show. The more frequent and severe the sunburn, the higher the risk of skin cancer. It also reduces the body's ability Severe ☐ No shade to cool, increasing heat stress risk. 10 Partial shade High Regular occurrence Severe ☐ Total shade Moderate High ☐ Irregular occurrence Nil ☐ No occurrence **Shade at rest breaks:** Providing shaded areas for rest breaks is important to protect staff from UV radiation, **Total Work System Factors:** heat and rain. Very high ☐ No shade 5 High ☐ Partial shade 2 ☐ Total shade Moderate 0 Nil ☐ Indoor break area

3. HAZARDOUS FACTORS

The presence of reflective surfaces or photosensitising substances such as industrial chemicals, drugs, plants, fragrances and some medications will increase the risks posed by UV radiation.

Reflective surfaces: Most surfaces that reflect glare will also reflect UV radiation. New or hardor smooth surfaces will reflect more UV than older and softer ones.

Snow, roofing or cladding iron	25	Severe
Sea surf, white house paint, open water	20	Very high
Dry beach sand, concrete	10	High
Asphalt, matte metal, terracotta tiles	5	Moderate
Grass, soil	2	Low

Photosensitising substances: industrial chemicals and plants: Certain substances can increase sensitiity to UV radiation. The Product Safety Data Sheet (SDS) can be used to identify photosensitising substances.

Regular occurrence	25	Severe
☐ Irregular occurrence	10	High
☐ No exposure	0	Nil

Total Hazardous Factors:	
iotai riazardous ractors.	

Add up your environmental, work system and hazardous factors sub-totals to get your final score.

Workplace risk scores	Overall workplace risk	rating	
·	Workplace subtotal	Score	Risk rating
Environmental score		>69	Severe
Work system score			
, , , , , , , , , , , , , , , , , , ,		52-58	Very high
Hazardous score		35-51	High
Overall total score			J
		<35	Moderate

If your overall workplace risk rating is:

Severe: Your workplace presents extreme levels of UV exposure, dramatically increasing outdoor worker skin cancer risk. Employers must provide a safe environment that protects workers from harmful UV. With the participation of your teams, it is extremely important to review your current sun safety control measures, identify gaps to prioritise strategies, and commit to a new sun safe plan as soon as possible.

Very high: Your workplace presents very high levels of UV exposure, significantly increasing outdoor worker skin cancer risk. Employers must provide a safe environment that protects workers from harmful UV. With the participation of your teams, it is important to review your current sun safety control measures, identify gaps to prioritise strategies, and commit to a new sun safe plan.

High: Your workplace presents high levels of UV exposure, substantially increasing outdoor worker skin cancer risk. Employers must provide a safe environment that protects workers from harmful UV. With the participation of your teams, it is important to review your current sun safety control measures, identify gaps to prioritise, and commit to a new sun safe plan.

Moderate: Your workplace presents moderate levels of UV exposure, increasing outdoor worker skin cancer risk. Employers must provide a safe environment that protects workers from harmful UV. With the participation of your teams, review your current sun safety control measures, identify gaps to prioritise strategies, and commit to a new sun safe plan.

2. Identify what sun safety control measures are currently in place

For each control in the table below, indicate if your workplace has the control in place, and if so, whether - in your view - it is being implemented effectively, partially effectively or ineffectively in your workplace.

UV Radiation Control Measures	Control in place & effective	Control in place and partially effective	Control in place but ineffective	Control not in place or Not applicable
Policy				
A sun safety policy or procedure				
Elimination				
Schedule outdoor work tasks from sunset / at night or move inside				
Substitution				
Schedule outdoor work tasks outside of peak UV radiation times				
Engineering controls				
Provide built (portable or fixed) or natural (trees) shade for workers				
Provide window tinting in vehicles				
Administrative controls				
Rotate workers between indoor/shaded and outdoor tasks				
Reduce exposure to reflective surfaces				
Encourage role modelling of sun safety practices by leadership and management teams				
Provide sun safety education and training to staff				
Provide sun safety information and resources				
Minimise exposure to photosensitive substances				
Advise workers to consult their GP if taking medication that may cause photosensitivity				
Include UV protection requirement in procurement procedures (e.g. UPF 50+ uniform fabric and minimum UVE of 95% for shade)				
Personal Protective Equipment (PPE)				
Ensure that the wearing of sun safe PPE is mandatory				
Provide a broad-brimmed, bucket or legionnaire style hat				
Provide attachable brims and neck flaps for hard hats or helmets				
Provide shirt with long sleeves and collar made from UPF 50+ fabric				
Provide long trousers made from UPF 50+ fabric				
Provide uniform that is designed to keep workers cool yet provide maximum sun protection				
Provide at least SPF 50+ broad-spectrum, water-resistant sunscreen and lip balm				
Provide wrap-around sunglasses or safety glasses marked 'O' for outdoor use that meet the Australian Standard				

3. Set your sun safety priorities

Reflect on your ratings of the controls above and consider what can be changed in your workplace. To help prioritise areas for improvement, we recommend that you review those controls which are either colour coded red or amber. Try to prioritise the most protective controls with greatest impact, while finding the 'easy wins' to build momentum.

TIP: A sun safety policy review is strongly recommended as the first step for all workplaces, to reflect organisational commitment and support sustainability.

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Policy

Engineering controls

Administrative controls

PPE

You are now ready to develop your **Workplace Action Plan** (Step 4 of the Implementation Guide).

Protect yourself in five ways from skin cancer











SLIP

SLOP

SLAP

SEEK

SLIDE

