Good work design in musculoskeletal injury prevention and return to work

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Biopsychosocial model of health





What is good work design?



Principles of Good work Design

Safe Work Australia

'Good work' defined as...

Healthy and safe work where the hazards and risks are eliminated or minimised so far as is reasonably practicable. Good work is also where the work design optimises human performance, job satisfaction and productivity.

Principles of good work design

www.safeworkaustralia.gov.au





Hazardous manual tasks

Code of Practice

2021





Sustained and/or repeated force

High or sudden force

Sustained and/or repeated awkward posture

Repetitive movement

Vibration



Managing the risk of psychosocial hazards at work

Code of Practice

2022





Psychosocial hazards

High or low job demands
Low job control
Poor support
Low role clarity
Poor organisational change management
Low reward and recognition
Poor organisational justice
Poor workplace relationships

Interpersonal conflict Remote or isolated work Poor environmental conditions Traumatic events Violence and aggression Bullying Harassment



Theme	S Stimulating	Mastery	A Agency	R Relational	T Tolerable			
Characteristics	 Skill variety Task variety Problem-solving demands Using and developing skills 	 Role clarity Feedback and recognition Task identity (doing a whole piece of work) 	 Control over work methods and schedule Decision-making autonomy Participative decision- making 	 Social contact Supervisor support Support from peers Social worth 	 Manageable time pressure, work hours, emotional demands etc. Consistent role expectations Justice and change management 			
Addresses Psychosocial Risks								
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Work Stressors	 Low variety/ high repetition Low task significance Poor skill utilisation 	 Role ambiguity Low reward and recognition Excessive monitoring Inadequate recognition 	 Low job control Rigid and inflexible processes No opportunity to influence decisions 	 Poor support Poor workplace relationships (bullying, harassment, etc.) Isolation and remoteness 	 Poor environmental conditions Excessive demands/ pressures Injustice Role conflict Radly managed change 			
	© Sharon K. Parker			remoteness	 badiy managed change 			



Managing the risk of psychosocial hazards at work Code of Practice 2022

Relative contribution to MSDs



Oakman et al (2015) Risk management: Where should we target strategies to reduce work-related musculoskeletal disorders? Safety Science 73:99-105

Relative contribution to MSDs

Hazard	Odds ratio for new back pain
High job intensity	1.8
High schedule demands	1.6
Job dissatisfaction	1.7
Low supervisor support	1.4
Lack of influence	1.2
Lack of job security	1.2
Lifting 10kg at work every day	1.2

Johnston et al (2003) Stressful psychosocial work environment increases risk for back pain among retail material handlers. American Journal of Industrial Medicine 43(2):179-187



QLD claims lodged by injury type 2020 - 2022

www.worksafeqld.com.au





Feeling overwhelmed?



Symptoms of poor work design, System issues:

Errors or poor quality output Equipment breakdown Increasing costs or slowing productivity Tools or equipment not available Resources misused or under-utilised Unclear goals, reporting lines Confused communication lines



Symptoms of poor work design, People issues:

Tension or conflict in teams Employee dissatisfaction High turnover Talented people leaving the job High absenteeism Injured or ill employees Lost time injuries or illnesses



	Physical factors	Psychosocial factors
Low back injury	11-80%	14-63%
Upper limb injury	11-95%	28-84%

Marras et al (2009) National occupational research agenda (NORA) future direction in occupational musculoskeletal disorder health research. Applied Ergonomics 40(1):15-22

Relative contribution to MSDs

Good work design addresses risk factors

Biomechanical risk factors:

Sustained or repeated awkward postures Sustained or repeated exposure to force High force or jerky movement Repetitive movement Vibration

Psychosocial risk factors:

Low job control Poor support Poor organisational change management Poor organisational justice

Exposure to traumatic events

Occupational violence or aggression



Good Work Design Examples Aged care and disability services

Queensland Department of Transport and Main Roads

Oil and gas mining

Bundaberg Regional Council

Return to work case example



Aged Care & Disability Services



Functional Mobility Screening

www.mobilityscreen.com.au

2022 Churches of Christ, Stanthorpe

All 90+ staff reported identifying 1-10 variances	100% perceived reduced risk of injury from hazardous people handling tasks and from resident aggression	Less resident aggression encountered 80% down to 73%
96% staff confident in screening tests	Reduced musculoskeletal discomfort 56% down to 45%	Reduced sprain strain incident reports 5 down to 3



Instructional videos

Click each video below to learn about functional mobility screening. After you have watched all videos, press the 'Next' button.

















www.mobilityscreen.com.au



Transport and Main Roads: Customer Service

Design Considerations

Biomechanical stressors Sedentary behaviour White noise Customer privacy Accessibility Staff safety Customer aggression Social distancing





Oil and Gas Drilling

Hazard identification training

3 HMTs from each crew

Risk assessment by HSEs

Risk control workshops

Trial







Vehicle & Plant Ergonomics Bundaberg Regional Council





How can you support Tim's RTW?

Return to work design

Coffee date to meet and greet

Ask Tim what he needs, wants, doesn't want

Engage a rehab provider

Negotiate start-finish times to reduce commute

Consider work from home

Retraining, upskilling, shadow colleague

Diarise check ins

Provide feedback on performance

Increase incidental movement eg. walking meetings

A guide for supervisors in small and medium businesses

Managing the relationship with an injured or ill worker during return to work

Why should you use this guide?

Small and medium businesses can face complex challenges when their workers become ill or injured. Managing return to work processes can be stheshul, as you juggli what is best for the business and the exoker. Sometimes it may feel like these are al dobt with each other. However, providing support to your injured or ill workers makes a big difference to their extran to work and psychological health, and sends a neusage to workers that your business tan fair processes.

Who is this guide for?

This guide focuses on the most important retationship: the one between the supervisor and

The liquind or III worker, If you are the supervisor or manager of the injuried or III worker, you can help make the return to work process a success by staying in touch with your worker, and following the suggestions in this guide.

If you do not separate or manage staff (e.g., if you only have a different role, for example if you are the return to work coordinator, or the owner of the business, or the person in charge of NB and administration), please share this document with the supervisor of the injuried or ill worker.

Throughout this document we use the word 'supervisor' to refer to someone who has direct responsibility for managing workers. Your business may use the word 'managing' but these documents will still privide a helpful guide.

This guide will help you:

Stay in touch with your injured or ill worker (see 'conversation starters' on pages 4-11) and keep the team in the loop (page 7)

Make changes to the workplace and/or to the work duties your worker does, to help them return to work sconer (see 'suitable duties' guide on pages \$2-15)

Businesses/employers also have other formal responsibilities related to a workers' compensation claim

These responsibilities depend on where you are, so check with your insurer or jarodiction's workers' compensation authority. The workers' compensation process usually requires three areas of management.

 the claims administrative process
 the medical management of the claim, and
 your worker and your relationship with them.

This guide focuses only on supporting your relationship with your worker, but being attentive to your regal obligations, administrative requirements and the medical management of a claim asis builds trust and improve builness outcomes, when broader obligations relating to the administrative or medical processes are mentioned in this guide, they are highlighted in orange and with a **A**.

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Good Design in Return to Work

Stay in touch, open questions, offer genuine care, diarise check ins

Make accommodations in duties

Talk to the team

Intervene early

Engage an occupational rehabilitation provider

Provide similar support whether the injury/illness is work-related or not





Good Work Design: The What

Good Work Design: The How

Identify hazards

Assess risks

Consult with workers, users, SMEs, designers, manufacturers, suppliers etc.

Engage leaders, decision-makers

Good Work Design: The Why?

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Questions?