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INTRODUCTION



The Safe Lifting Seminar is, for all intents and purposes a physical fitness (strength and flexibility) program coupled with information about how to lift safely

As well as having good lifting technique it's wise to have a skeleton that's in good alignment and strong muscles to support it.

Our crane on the front cover has an extremely strong 'skeleton' strong enough to lift engines into ships. It has a rock solid 'foundation'. Your legs and trunk are your 'foundation for lifting. They have to be strong.

It's essential that you know how strong and flexible you are which is why this seminar is part of a general musculo-skeletal health program.

It's also important for your employer to know how strong and flexible you are because they're paying your workers compensation premiums. They need to know the risk and manage the risk.

By doing the exercises outlined in **Musculo-skeletal Health Seminar** work book you can expect a dramatic improvement in the status of your musculo-skeletal health

For 80% of people there's an 80% chance they can get themselves back to 80% of good musculo-skeletal health in 80 days if they're diligent.



There's also more information including the **Clinical Diagnostic Assessment** on the www.globalbackcare.com website.

In the meantime stay tuned, highly tuned and remember, it's a big ask expecting to get better by having someone do some thing to you: sooner or later you have to do something to yourself.

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SAFE LIFTING

There are two reasons why organisations need to have a manual handling policy. Firstly as a duty of care and concern. No employer wants people to injure themselves lifting or put up with joint and muscles pain as if it's just another aspect of getting older. (Getting older is no excuse: you've had longer to train!)

Secondly it behoves all staff to know how to life safely, keep their skeletons in good alignment and their bodies strong so that they don't injure themselves while lifting.

MANUAL HANDLING PRINCIPLES

1. Bring the load close into your body.

If you're lifting something off a bench, slide it towards you, get your hands underneath it, bend your legs and then lift it.

2. Step and Swivel

You've lifted the object, now you have to put it somewhere.

Once again, use the big muscles of your body to do the work – ie your legs.

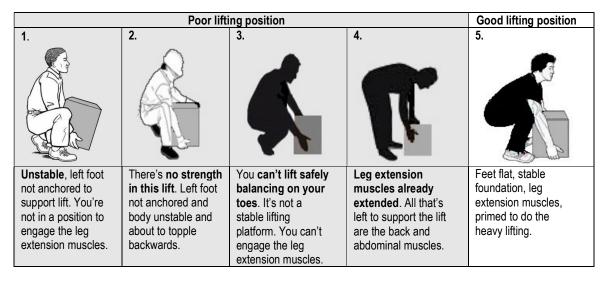
Rather than swivelling at the hips, turn the whole of your body starting with your feet.



3. Lifting technique

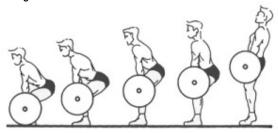
You'll see a lot of poor examples of 'safe lifting' on office corridor notice boards and on the internet, showing someone lifting a box off the floor with their heels off the ground, trying to lift it using one leg, with their centre of gravity in such a position that as soon as they lift the object they're going to fall over.

The first three shaded illustrations #1 - 3 are highly unstable platforms from which to lift a heavy object. They're not safe. You won't be able to lift heavy weights because you can't properly engage the leg extensor muscles, the body's strongest muscles, quadriceps and buttock. You could fall over. No-one ever successfully carried out a heavy lift using these techniques. You can't perform a safe life standing on your toes and with legs bent more than around 90 degrees at the knee joint. The flaw in illustration #4 is obvious: the load is being borne by the back muscles, not the large leg muscles.



#5 illustrates the position where the big muscles of your legs are ready to do the heavy lifting. Spread your legs so they are shoulder width apart. Make sure your feet are flat. In this position it's only after the legs are extended and the load having an upward momentum that the back and abdominals muscles are engaged to complete the lift. Before you start the lift, prop something under the box so you can get your hands underneath it.

Here's an example of good lifting form.



If you're going to take a lead on how to lift, take it from the weight lifting experts. Legs bent, legs doing the initial heavy lifting and back not coming into play until the weight is well past the knees and the lift already has momentum.

And don't forget it's not all about lifting up! There's a lot of lifting down as well. The same techniques apply. Use the big muscles of the legs to do the heavy work.

4. Stay strong

Never under-estimate the need for strong muscles right throughout your body. To protect yourself from lifting incidents you need to keep your musculature strong. Not many people can do that without having a regular and systematic strength training program.

The fact is, it's a lack of strength that has the most significant bearing on manual handling incidents. Some people aren't strong enough to pick up a leaf off the ground or clean their desk without herniating a disc!

You can get serious and train at the gym three times a week or you can make sure you can do 30 situps, 30 squats and 30 pressups.

You can get serious and train at the gym three times a week or you can make sure you can do 30 situps, 30 squats and 30 pressups – and keep on doing it throughout your working life.

And never under-estimate the need for strong abdominal muscles. They take more of the load than the back muscles.

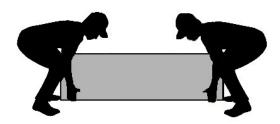


The standard weight for airline luggage is 23 Kg. Qantas don't have a claim form! You should be able to lift up to 20Kg at work without doing yourself an injury.

5. Don't attempt to lift something you think is too heavy.

Get help.

And then when you do the lifting, make sure feet are flat and legs bent at about 90 degrees.

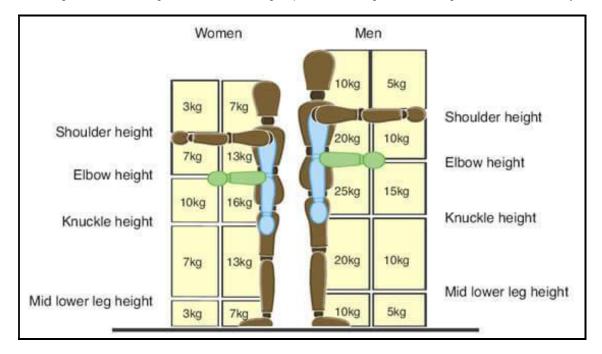


6. Use a machine.



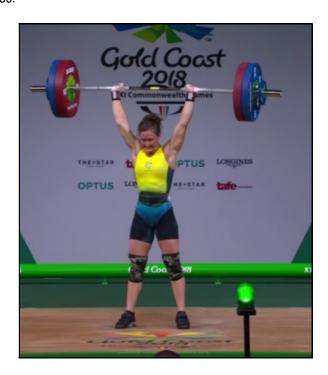
BRITISH LIFTING/MANUAL HANDLING STANDARDS

This image makes eminent good sense. The strongest position for lifting is at waist height and close to the body.



THE IRONY

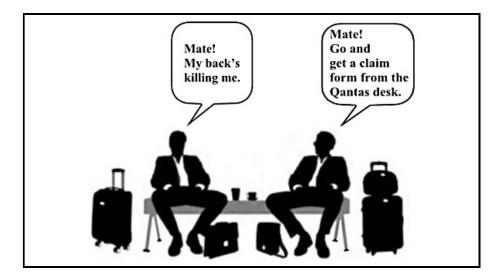
At a time when workers compensation claims for lifting light weights are still being submitted, Tia-Clair Toomey, weighing in at 58 Kg, lifts 114Kg above her head and wins a gold medal at the 2018 Commonwealth Games.



It's ironic that Qantas doesn't have a claim form for people who injure their back or shoulder lifting a case with a domestic flight allowance of 23Kg and an international flight allowance of 32Kg.

These are bags that are lifted off the bed, dragged to the car, lifted into the boot, taken out of the boot at the airport, wheeled into the terminal and lifted onto the scales. The lifting process is completed many times through the course of a holiday.

So how come so many claims for lifting injuries are being made in workplaces?



It's an insult to trades people, motor mechanics, hardware store staff, farmers, gardeners, horticulturalists, baggage handlers, posties, delivery drivers ..., to give office-based workers a free retirement benefit for lifting a box that weighs the same as a bag of groceries.

Sometimes you don't realize your own strength until you come face to face with your greatest weakness. Susan Gale

I CAN DO THAT!

Some of the things fit and healthy people are designed to lift and do without causing joint and muscle pain.

Sitting down

The activities below are the ordinary, every day activities people expect to be able to do at home, in their leisure time or at work without ending up in pain.

Think about it: how can you injure yourself sitting down at a desk or behind a steering wheel – except by your own hand?





Standing up and working while bending down



Bending over



Lifting a bag



Carrying a suitcase



Cleaning a desk



Carrying a ream of paper



Lifting and swivelling



Putting books on a shelf



Changing a tyre



Laying bricks



Shearing sheep



Pushing a wheelbarrow



Shovelling



Vacuuming



Polishing



Scrubbing



Mopping



Cleaning windows and walls



Using a whipper snipper



Pushing a hand trolley



Getting down out of a truck

No claim form at home ...



...or at the supermarket.



You can injury yourself playing sport, but you take your chances. Not many people sue their sports club for a twinge. A lot of sports people take out their own accident insurance policy.



AND THERE'S MORE

It makes a mockery of anyone who ever went to a gym and embarked on a strength training program that someone should receive even as much compensation as a brass razoo for lifting a 5Kg box off the desk at work.



A FINAL WORD

Sensible shoes

Every organisation needs a sensible work shoe and work boot policy. High heels are not work shoes. They are neither safe, healthy nor sensible. Imagine wearing high heels when the building has to be evacuated?

If steel capped boots need to be worn on a worksite, then flat soled, sensible shoes with heels that are no higher than 4cms need to be mandated for general staff.







Holding on to rails

In many organisations it's mandatory that employees hold onto a rail while going up or down stairs. You only have to trip once in 10,000 times and you could do yourself a catastrophic injury.

All staff have an obligation to call out colleagues who fail to hold onto rails.



Sprained ankles

What are you going to do about a sprained ankle?

First up, spraining an ankle is just another incident that's part and parcel of life. It can happen to anyone, anywhere, at any time.

Give it the best first aid possible; that includes instant icing, strapping, elevating and not bearing weight on it.

The case for all staff doing a first aid course is compelling. Most of the aid will be the aid they give to themselves.



If you sprain your ankle and it's iced and strapped properly, you can keep it elevated and you have a sit down job, chances are you'll be able to carry on, or at least be back at work the next day.

Chances are it won't require medical attention, but if it does, get work reimburse you for any costs that you incur, including 'proper' bandages and maybe a spray can of coolant.

Whilst it's doubtful if an X-Ray will be needed (all that's happened is ligaments, tendons and muscles have been torn) if it is, once again ask work to reimburse you for the cost.

Discipline is doing what needs to be done, even if you don't want to do it.



Our recommendation is that organisations adopt the following mandatory approach to measuring, managing, monitoring and minimizing the risk of personally-generated body system dysfunctions being dressed up as work-related injuries. Tick the items on the checklist which you have completed at some stage of your working life with your current employer.

1.	Safety induction and policy discussion, including simple safety procedures like hanging on to rails when going up or down stairs and wearing appropriate footwear	
2.	First aid course – so people know what to do when they sprain and ankle, strain a muscle, herniate a disc	
3.	Manual handling seminar	
4.	Work station assessment and set-up	
5.	Musculo-skeletal health seminar	
6.	Stress Management seminar	
7.	Information – pamphlets, posters, books, audio files and videos	
8.	Pre-employment and then yearly specific joint assessment to determine pre-existing conditions	
9.	Pre-employment and then yearly ten point musculo-skeletal risk screen	
10.	Musculo-skeletal Clinical Diagnostic Assessment for people at risk and people submitting a claim	
11.	Diagnostic imaging for people with pre-existing conditions	
12.	Diagnostic imaging when people submit any sort of claim for joint and muscle pain	
14.	Pro-Active Rehab program for musculo-skeletal and stress claims for people at risk and people on workers compensation	
15.	Daily strength and flexibility exercise program for all staff.	

All the ergonomic furniture in the world won't protect you from musculo-skeletal dysfunction unless it's accompanied by a regular and systematic strength and flexibility program for the muscles that are designed to keep your skeleton in correct alignment.

NOTES

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