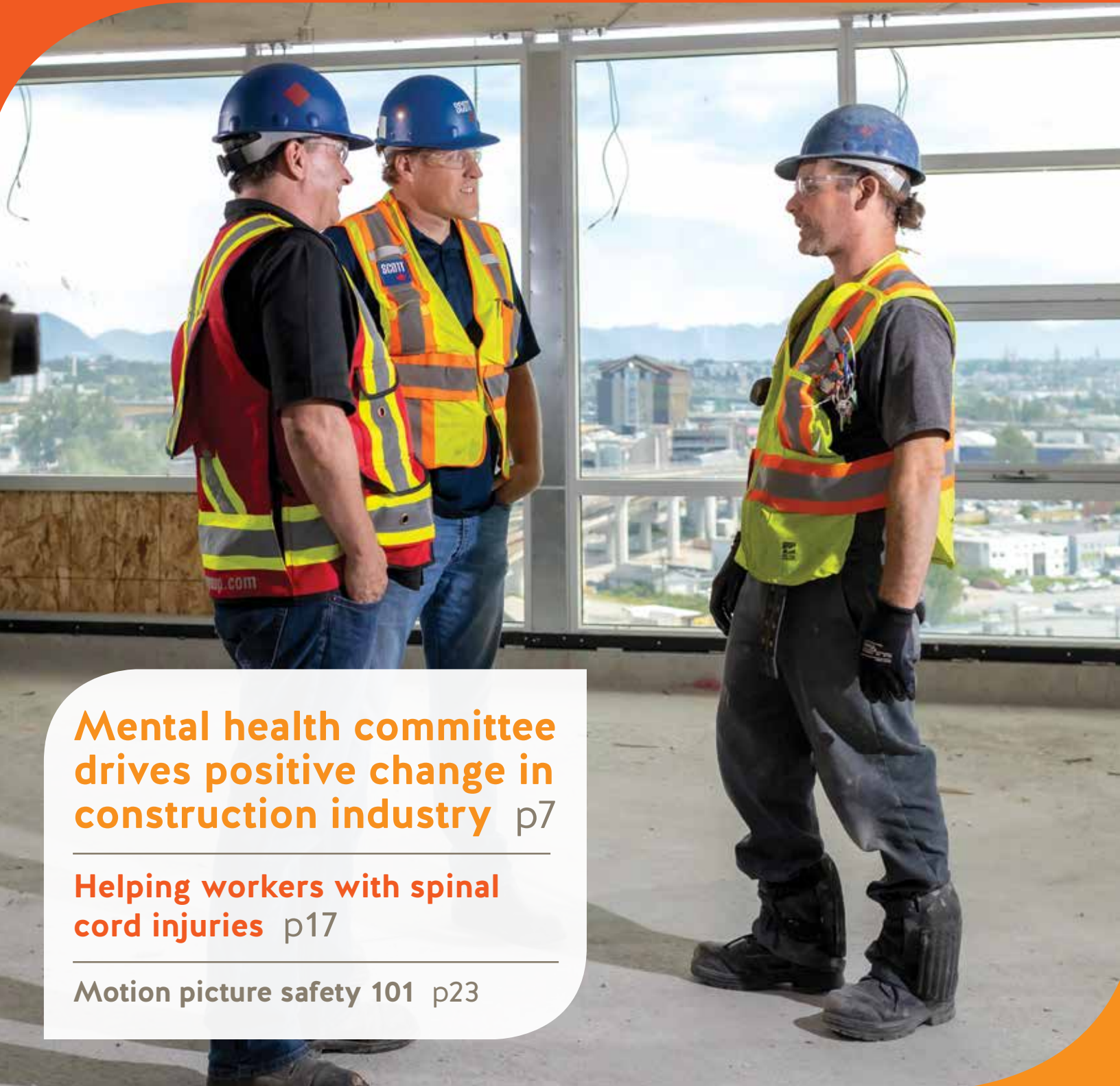


WorkSafe

Tools for building safer workplaces | worksafemagazine.com | September / October 2019



**Mental health committee
drives positive change in
construction industry** p7

**Helping workers with spinal
cord injuries** p17

Motion picture safety 101 p23



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Centre pullout

What's wrong with this photo?

Desk distress.

What was wrong

Answer key and winner of the last "What's wrong with this photo?" contest.

Leading by example

Workplace leaders today are challenged with much on their plate when it comes to creating a healthy and safe workplace — on top of preventing occupational disease exposure and physical injuries, employers are also tackling bullying and harassment, violence, discrimination, fatigue, mental health, and more. Keeping it all together can seem like a juggling act, but you aren't alone. In this issue, we share stories of employers who are facing these issues head on and paving the way for the rest of us to follow. Their innovative solutions to health and safety problems provide us with real-world tips that anyone can implement in their workplace.

In our cover story we talk to a construction company that is committed to creating a health and safety culture focused not just on physical safety but mental safety as well (page 7). Meanwhile, our safety spotlight focuses on the physical side of injury by creating a comprehensive program to avoid the all-too-common injuries caused by slips, trips, and falls (page 13). We also speak to members of the wood fibre hauling industry (page 21), the motion picture industry (page 23), and the crane industry (page 25) about how each of these groups are addressing the unique needs of their industries.

Each with their own set of competing demands, these employers, workers, and health and safety committees and associations are proof that by taking action, real progress can be made when it comes to creating a healthy and safe workplace.



Terence Little
Editor-in-chief

WorkSafe

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WORK SAFE BC

Contributors



Sarah Ripplinger

Sarah is a marketer, writer, editor, and journalist. She brings us our cover story on mental health and construction (page 7) and a story on tower crane safety in one of our “WorkSafeBC updates” (page 25).



Gail Johnson

Gail has been working as a journalist since 1996 and has earned national, provincial, and local awards and nominations for her work. She interviews researchers hoping to improve spinal cord injury recovery with an app in “Work Science” (page 17).



Tom Ruffen

Tom began his career as a comedy writer at the Canadian Broadcasting Corporation in 1972 and has worked extensively as a print and broadcast journalist, copywriter, and video scriptwriter. He interviews wood fibre haulers in one of our “WorkSafeBC updates” (page 21).



Marnie Douglas

Marnie is a Kelowna-based writer and communications professional who began her career in journalism. She brings us a story on an innovative way to teach safety in the motion picture industry in one of our “WorkSafeBC updates” (page 23).

Ask an officer

Stopping worker sprains and strains in supermarkets



Brian Kossey

Occupational hygiene officer

Region: Nanaimo

Years on the job: 11

In this edition, we speak with occupational hygiene officer Brian Kossey about how employers in supermarkets can control the most common work-related injury in B.C. — musculoskeletal injury (MSI).

Q. What is an MSI?

A. An MSI is an injury or disorder of the muscles, tendons, ligaments, joints, nerves, blood vessels, or soft tissue, including a sprain, strain, or inflammation. It can be caused or aggravated by the tasks performed at work, such as lifting, reaching, and repeating the same movements.

Workers with an MSI may become slower at their tasks, be unable to complete certain tasks, or miss work altogether. The injury could also have long-term effects on their health, including muscle strains, tendinitis, and carpal tunnel syndrome.

Q. Are MSIs preventable?

A. Yes, they are. As an employer, you need to encourage workers to report anything that could lead to an MSI. Early reporting is important in identifying areas of concern and preventing the progression of injury.

Q. How will workers know if they have an MSI?

A. Workers must be trained to recognize the symptoms of MSI. Signs, which can be observed, could include swelling, redness, and/or difficulty moving a particular body part. Symptoms, which can be felt but not observed, could include numbness, tingling, and/or pain.

Signs and symptoms of MSI may appear suddenly — for example, from a single incident — or they may appear gradually over a longer period. If you are experiencing signs or symptoms of an MSI, inform your supervisor and report to the first aid attendant. An MSI may be treated more effectively if it's discovered and reported early.

Workers need to work with their supervisors and managers to identify and control risks that could lead to MSI.

Q. What do employers need to know about preventing MSIs?

- A.** Tasks where workers have suffered an injury or show signs and symptoms of an MSI should be the highest priority for future injury prevention. After that, you should focus on identifying risk factors before injuries occur. A new job task or changes to the process are other high-risk areas to explore.

If the risk identification step reveals an obvious and effective risk control that will eliminate or minimize the risk to workers, implement it right away. For example, if a bakery clerk lifts heavy bags of sugar, you may decide to order smaller bags and store bags at waist height.

It's also important not to look at a task in seclusion. There is a cumulative effect of multiple risk factors within a task, or multiple tasks performed within a day. The cumulative effect is important when looking at the overall risk to a worker.

Q. We give our employees lots of stretch breaks, isn't that enough?

- A.** Stretching and rest breaks are great, but they are not the most effective controls for MSI. More emphasis must be put on changing the work environment or aspects of the specific task. Changes to the work environment can prevent workplace incidents and maximize productivity. For example, changing to height-adjustable workstations minimizes reaching and bending and could allow employees to work faster and be less fatigued.

Other changes to the environment could include tools, equipment (such as carts), written safe work procedures, and work organization or pace.

Q. Where can I get more information?

- A.** WorkSafeBC has some good resources and publications that can assist employers with managing MSIs:
- Workers can find more detailed information on preventing MSIs in the booklet [Understanding the risks of musculoskeletal injury \(MSI\)](#) on [worksafebc.com](https://www.worksafebc.com).
 - Employers can find more detailed information on preventing MSIs in [Preventing Musculoskeletal Injury \(MSI\): A Guide for Employers and Joint Committees](#) on [worksafebc.com](https://www.worksafebc.com).

Looking for answers to your specific health and safety questions? Send them to us at worksafemagazine@worksafebc.com, and we'll consider them for our next "Ask an officer" feature. ☺

"There is a cumulative effect of multiple risk factors within a task, or multiple tasks performed within a day. The cumulative effect is important when looking at the overall risk to a worker."

—Brian Kossey, occupational hygiene officer,
WorkSafeBC

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On the cover



Dealing with depression — mental health initiative drives change

By Sarah Ripplinger

When Scott Construction launched its mental health committee in 2016, the company didn't yet know how impactful the program would be. From helping workers access resources for depression to hosting morning meditation, the committee has made a positive impact on worker's lives. The company is now sharing its tips for success.

To everyone else, Mike Haley appeared to have a successful life and a successful career: he started in construction as a woodworker in the late 1980s, moved up to an assistant superintendent, and then to manager of program services at Scott Construction Group. But inside he was depressed, suicidal, and using alcohol to self-medicate.

"I was wondering if life was worth all this trouble," reflects Haley. "I probably lost two marriages out of it over the years because, you know, you sit there, and you don't care. You go through the motions during the day — you're smiling and carrying on — but when you go home, you shut down."

Then, through a newly launched mental health initiative at Scott Construction, Haley learned how to get help for his depression and began to see the light at the end of the tunnel. Today, he leads talks on mental health and recently won a community leadership award.

Throwing workers a lifeline

It all started around three years ago when a worker at Scott Construction shared his wife's struggle with depression. The story hit home, and the company of around 100 employees launched a mental health committee to proactively put mental health supports for its workers into place.

The committee of 12 volunteers — which includes Haley, and other workers from Scott Construction's British Columbia, Alberta, and Ontario sites — meets quarterly to discuss mental health-related topics. They have lunch and learns with special guest presenters, which are videotaped and shared with workers all over Canada through an online portal and quarterly newsletter. They also plan and lead themed monthly activities in the workplace.

Happiness was the topic for July and August, says Donna Grant, marketing manager with Scott

Construction and a member of the mental health committee. "Everyone sent in their favourite summer photos of something that feeds their mental wellness and brings them joy or peace."

Last year, the committee put together a photo slideshow that became a piece of company memorabilia and a bridge between employees, notes Grant. "You might see a photo of somebody bungee jumping and all of a sudden you have something to talk about. There's this bonding and team building that is also very good for mental wellness."

Other recent themes include "suicide awareness," "stresses of parenting" and "laughter is the best medicine," the latter of which involved bringing in a certified laughter yoga instructor; laughter yoga involves prolonged laughter mixed with breathing exercises.

The theme "mind-body connection," from November 2018, was particularly memorable. It included 10 minutes of guided meditation and five minutes of tai chi daily at 7:30 a.m.

"At the end of November everyone said: 'is there any reason why we have to stop doing this?' and I said, 'well, no,'" recalls Grant. "So we still do meditation every morning. And one participant said he found that he wasn't experiencing road rage on his commute to work anymore, and said: 'I really think it's the meditation'."

A connection between suicides, overdoses, and construction

The data of the past decade has shown that mental health, suicide, and construction have correlated links. According to the U.S. Centers for Disease Control and Prevention, the second highest rates of suicide occur in the construction and extraction industries.

Hear it from the source

Scott Construction has educational videos on how to talk about mental health. Find Mike Haley and Donna Grant's videos by searching for Scott Construction on [YouTube.com](https://www.youtube.com).



Committee members in the Lower Mainland meet: (L-R) Mike Haley, Donna Grant, Aaron Jackson, John Loop, Kellyann Williams, Louise Doctor, Theresa Tran.

A 2018 BC Coroners Service report found that 55 percent of illicit drug overdoses were among people employed in the trades and transport industries. Scott Construction recently took the initiative to offer naloxone training to its workers, enabling them to administer the potentially life-saving overdose medication.

Workers who turn to drugs and alcohol to self-medicate and manage their depression, anxiety, or pain can be creating a dangerous mix in an industry that often involves heavy machinery, power tools, and long hours, warns Haley. “If you’re not 100 percent at work, you’re going to put yourself or somebody else in danger.”

Laying the groundwork

Scott Construction’s role in spreading the word about mental health in the construction industry extends beyond its worksites. Grant and Haley speak at conferences such as the British Columbia Construction Safety Alliance’s annual safety conference and the Vancouver Regional Construction Association leadership conference. They have created and presented an hour-long talk titled “Mental Health and the Construction Industry” for British Columbia Construction Safety Alliance regional breakfasts in Prince George, Vancouver, Kelowna, and Victoria.

“We need to show how great the construction industry is and part of that is showing that employers care for the physical and mental well-being of their workers.”

—Donna Grant, marketing manager,
Scott Construction

In early 2019, Haley received a community leadership award from the British Columbia Construction Association for his mental health outreach efforts and for candidly sharing his personal experience with depression.

“Scott Construction is leading the charge when it comes to mental health in the construction industry,” remarks Jessica Berglund, senior manager in Prevention Field Services at WorkSafeBC. “They’ve also been proactive in sharing their approach and successes with others.”

One of the key reasons for this, says Grant, is because speaking out about mental health in the workplace not

“You go through the motions during the day — you’re smiling and carrying on — but when you go home, you shut down.”

—Mike Haley, manager of program services,
Scott Construction Group

only protects the health and safety of workers, it also makes good economic and forward-thinking sense.

“We have to make sure that we’re an attractive place for people, including young people, to work,” she asserts. “We need to show how great the construction industry is and part of that is showing that employers care for the physical and mental well-being of their workers.”

Paying it forward

After Scott Construction launched its mental health initiative, Haley learned about counselling services available to him through the company’s extended medical plan. He now sees a counsellor when he needs to. That support, he says, has made a world of difference in his life, and brought him out of his former depression.

“It just turned my life around,” says Haley. “Just knowing you can go out there and talk to people to make you feel better.”

Still, Haley knows that a lot of work remains to be done to help more workers struggling with mental illness.

“It’s about getting rid of the stigma; and I think we’re doing that slowly but surely,” he says. “If we can help one person not hurt themselves, then we’re doing our job.” ☺

Five tips for launching a mental health program at your workplace

- 1 Proactively let employees know about the mental health supports that exist at your workplace and through extended health benefits and community resources (such as the [Canadian Mental Health Association](#) and [BC Bereavement Helpline](#)).
- 2 Plan and implement mental health outreach and supports for workers, including making the workplace a safe space to discuss mental well-being and mental health concerns.
- 3 Launch a mental health committee to gather information and implement mental health initiatives and outreach at your workplace; offer mental health first aid training to committee members.
- 4 Don’t be afraid to start small, and learn what works best for your company by asking for feedback.
- 5 Check in with workers who have expressed an interest in mental health supports to see if they are okay.



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- BC Construction Legislation & Administration
- WHMIS 2015 Train the Trainer

Online Safety Training

CSTS-09: Construction Safety Training System

ESTS: Electrical Safety Training System

RSTS: Roadbuilder Safety Training System

HAT: Hazard Awareness Training

No-Cost Training

Courses listed below qualify for BCCSA's No Cost Training. If your employer belongs to construction sector 72, or has the classification unit (CU) number 704008, or CU 712033 then you are eligible for **FREE** training in BC for select courses!

- COR™ Internal Auditor Training
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- Train the Safety Trainer
- Leadership for Safety Excellence (**LSE™**)

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Jasmine Point removes the painter's tape from a dedicated workspace at RIMEX.

Ending slips, trips, and falls

By Holly Munn

Delivering quality products while maintaining safety and productivity is a goal for many manufacturing organizations. In 2011, RIMEX, a B.C.-based company and the world's leading custom wheel manufacturer, decided to take the steps needed to improve efficiency, product quality, and employee safety.

Fabricating the enormous wheels needed to keep the mining, forestry, agricultural, and trucking industries working requires a lot of equipment. There are work orders to take care of, blocks to support wheels, chain trees for products in process, assorted tools, and finished product and raw materials. Items out of place, uneven surfaces, poor work processes, and spills could not only slow down work progress but lead to injury from slips, trips, and falls. But cluttered workspaces aren't necessary and they aren't efficient, says the health and safety team at RIMEX. The company is using workplace design and processes to keep work streamlined and work areas clean.

Keeping manufacturing lean

One of the ways that RIMEX has dealt with the potential clutter and prevented delays and injuries is to adopt the Lean method of manufacturing.

"Lean is a set of techniques that helps identify and eliminate waste from an organization," says Clint Matthias, branch systems coordinator, who also helps oversee rollout of the methods to RIMEX's plants worldwide.

"6S [page 14] is one of the ways we implement Lean and also ensures we create a clean, orderly, and safe workplace for employees," Matthias explains. "When the methodology was implemented by Toyota, it was called 5S. We've added a sixth S — safety — to the program."

Looking at workplace design

"A big part of implementing is going in and cleaning, sorting, and optimizing processes and work areas. When we sort items, we red-tag things that may no longer be needed in the environment and move them

to a common area,” says Matthias. “There shouldn’t be anything in the work area that doesn’t need to be there.”

Every piece of equipment has a designated and marked location. All cables, hose reels, and extension cord reels are directed behind machinery or mounted on the walls. Finished product and raw materials are stored in designated areas away from mainstream production, so the shop floor is not cluttered.

“One of our big goals is to identify and eliminate waste including unnecessary motion. We reduce the chances of employees slipping and tripping if we reduce the motion of people moving around and collecting items such as tools or documentation,” Matthias continues.

“We also make sure everyone uses the 15 minutes at the end of their shift to pick everything up,” adds Roger Hall, RIMEX safety manager. “Our shop is spotless and everyone knows what their responsibility is. New hires don’t know any different.”

Maintaining the commitment

One of the key pillars of 6S is ‘sustain,’ and that includes looking for ways to make things better. RIMEX does monthly audits that complement the 6S program. “We are always trying to have continuous improvement. Our workers take ownership and are empowered to implement their ideas and are always encouraged to ask how we can make things better; the workers themselves push the 6S program,” says Hall.

Workplace inspections are conducted regularly to identify any hazards, such as uneven surfaces, poor work processes, or potential spills, that could not only slow down the work progress but also lead to injury.

The company is seeing greater employee retention and has also seen a reduction in first aid calls. “Our first aid calls have definitely gone down and our injury rate is dropping,” says Hall.

“We celebrate every year we pass our Occupational Safety Standard of Excellence inspection and audits. This is really because of the systems we have in place,” Matthias says.


Stopping slips, trips, and falls in your workplace

“Clearly defined walkways, level walking surfaces, and light levels are all really important factors to consider

when trying to prevent slips and trips,” says Jose Barranco, a WorkSafeBC industry specialist.

“Falls from the same level or height are the third leading cause of incidents in manufacturing. It’s something we call a stubborn risk. People assume that everyone falls and that falls are not preventable, but falls lead to injuries and 20 percent of those are serious. These injuries don’t have to happen,” Barranco adds.

Check out the following resources on [worksafebc.com](https://www.worksafebc.com) for ways you can manage slips and trips:

- The [Slips, trips, and falls in manufacturing](#) bulletin
- The [Slips, trips & falls](#) home page
- The [Manufacturing industry](#) home page 

6S methodology

6S is based on the 5S method developed in Japan to support just-in-time manufacturing. In North America, the English equivalents for the Japanese terms are used.

- 1 Sort.** Include only what is necessary in a workspace. This removes unnecessary clutter.
- 2 Set in order.** Label necessary items, arrange them in an orderly fashion, and mark their place. This allows anyone to find, use, and return an item.
- 3 Shine.** Clean and maintain. This step ensures the floor is swept and that equipment is safely maintained.
- 4 Standardize.** Use documentation and training to ensure consistency throughout the organization.
- 5 Sustain.** Perform monthly audits, workplace inspections, and pre-shift meetings.
- 6 Safety.** Identify and eliminate additional hazards as a group.

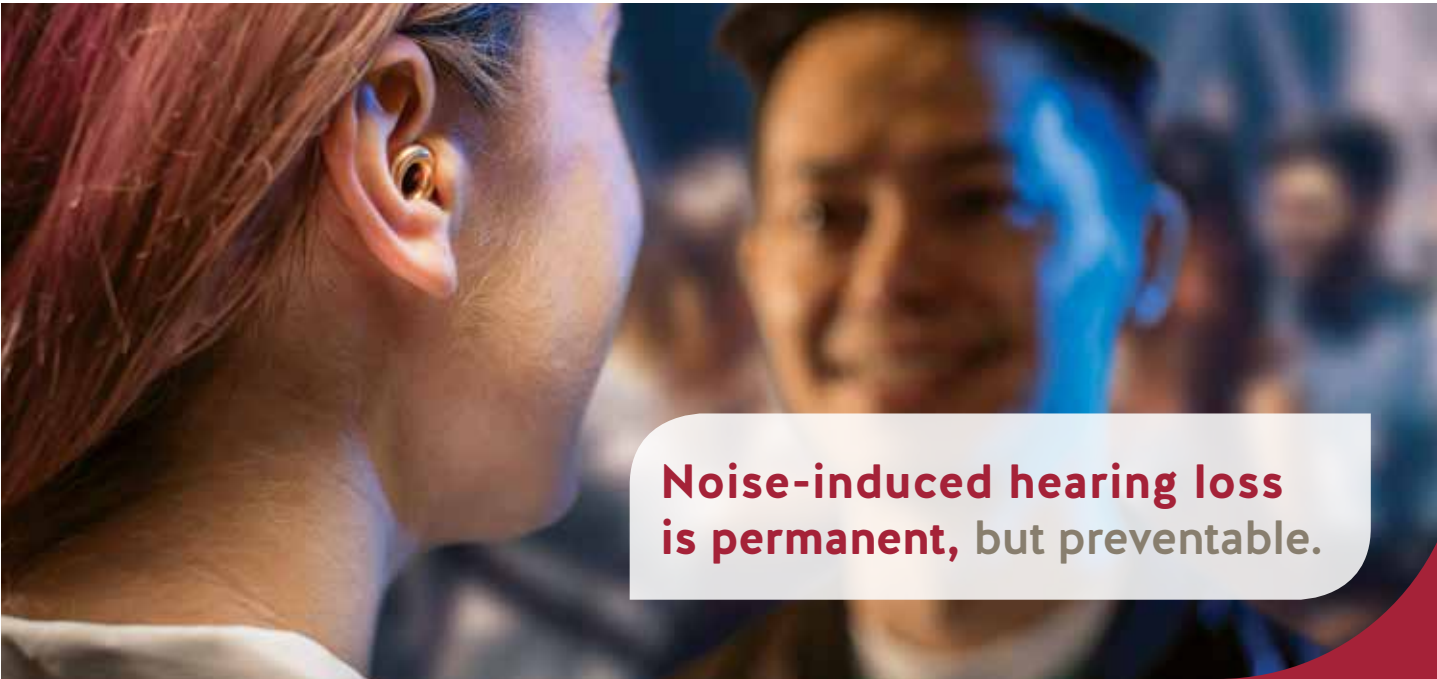


In B.C., two workers per day are injured from a slip, trip, or fall.

Storing tools and equipment in their designated location helps prevent slips, trips, and falls in the workplace.

Find resources for developing a risk management plan at worksafebc.com/slips-trips-falls

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At the G.F. Strong Rehabilitation Centre, Gurkaran Singh demonstrates his progress on an app for managing injury rehabilitation to his supervisor, Dr. W. Ben Mortensen.

App helps workers with spinal cord injuries

By Gail Johnson

Spinal cord injuries are among the most devastating and difficult to deal with. Even more challenging is the potential for common secondary complications to arise, from pressure ulcers to depression. The key to well-being in recovery, however, could rest in the palm of the hand.

Emerging research supported by WorkSafeBC is exploring the use of a new app that bolsters self-management skills for workers who have experienced a spinal cord injury (SCI). The effect? Improved health outcomes among those recovering from SCIs.

Gurkaran Singh, a recipient of a 2017 WorkSafeBC research training award, is completing his master's in rehabilitation sciences at the University of British Columbia. His graduate project builds on previous work by Dr. W. Ben Mortenson, associate professor of occupational science and occupational therapy, in the development of a mobile app to help people manage their care and treatment plans.

For those with spinal cord injuries, those plans can be extremely complex, even daunting, making it hard for them to keep up once they're out of the hospital or clinical setting.

While the power of technology to help people manage a range of chronic conditions, from asthma to diabetes, has been well established, Singh discovered early on in his studies that evidence related to how a mobile app could help those with spinal cord injuries was lacking. With a keen interest in technology and volunteer experience with people with disabilities in Vancouver and rural India, he was motivated to improve the quality of life of individuals with SCIs.

"There are a lot of health apps out there that are made for general populations," Singh says, speaking of the various fitness apps that track things such as nutrition, step counts, heart rates, and sleeping patterns. "But a lot of these apps have a one-size-fits-all approach. They're not specifically geared to this population and its needs. That was my goal and my purpose: to dig deeper into those needs and address them."

Keeping all your health information in one place

The ultimate aim of the app is to assist individuals in incorporating healthy habits and lifestyle choices to help prevent secondary complications.

The app allows users to store details about medications, weight, blood pressure, symptoms,

“More information is being delivered to us through mobile devices. Giving injured workers access to tools that help with recovery is so important. This is the type of study that adds to our knowledge about the use of e-health apps to promote rehabilitation.”

—Lori Guiton, director, Policy, Regulation and Research at WorkSafeBC

mood, and more. As they track this kind of information, they learn more about themselves and how their injury is affecting their lives. App users have the option of sharing the data with their medical team, but only if they choose to do so. The goal of the app is to gather data for the user, not for external parties — data privacy is something the team is taking seriously when it comes to developing the app.

App users can input instructions from health care providers such as appointments, diet, sleep, and exercise. The app will then generate reminders via push notification and record data so people don't lose track of anything. Users can also set goals within the app and the program will break them down into manageable steps and keep tabs on progress.

Having recruited people with SCIs across Canada and the United States, and taking feedback from health care professionals, such as caregivers and clinicians, Singh is exploring the app's usability and areas of improvement.

“To make sure that it's effective and meets the needs of people, not just theoretically but practically, that can only come from people actually trying and testing the app,” he says. “You need that real-world experience.”

Easily accessible — anywhere, anytime

What makes this kind of technology particularly beneficial for those with SCIs is that it's easily accessible from any location. Furthermore, self-management — taking steps on a daily basis toward overall well-being — gives people a sense of autonomy, something that people with severe injuries often feel they're missing.

Consider how the app might help with social interaction, for example. Engaging with the community can be difficult for those with SCIs for various reasons. The app prompts users to pursue social activities and

engage with like-minded individuals, whether it's in person or via an online forum. Avoiding isolation in this way is vital to mental health.

Research offers insight into e-health

“WorkSafeBC is committed to advancing and promoting occupational health research,” says Deepani Weerapura, WorkSafeBC senior manager of Policy, Regulation and Research. “Through our research program, research training awards are available to full-time graduate students in B.C. These awards give emerging researchers the chance to work with established experts and build their careers in workplace health and safety science, medicine, policy, and practice.”

“Singh's research gives us broader insight into e-health literacy, and health literacy more broadly,” says Lori Guiton, WorkSafeBC's director of Policy, Regulation and Research. “This is key, as more information is being delivered to us through mobile devices. Giving injured workers access to tools that help with recovery is so important. This is the type of study that adds to our knowledge about the use of e-health apps to promote rehabilitation.”

So far, generally speaking, users have reported feeling optimistic about the app despite being unfamiliar with the technology. Beyond assisting people with SCIs, Singh is hopeful that the app's use will lead to other positive effects. For instance, reducing secondary complications will greatly improve the quality of life for people with spinal cord injuries while also reducing health care costs.

“I'm hoping in the long term that, by introducing this app, people with spinal cord injuries can resume daily activities sooner, be able take control of their lives, and maybe re-enter employment and contribute to the changing demographics of the workforce,” Singh says. “It would benefit employers and, most importantly, it will benefit injured workers.” 🍷

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Safety on the agenda

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CCOHS workshop: Harassment and violence prevention

Canadian Centre for Occupational Health and Safety
November 18, 2019 or January 14, 2020
Mississauga, Ontario
ccohs.ca

NAOSH Week safety forum and awards

Canadian Society of Safety Engineering
November 28, 2019
Burnaby, B.C.
naoshbc.com

SSM occupational health and safety conference

Safety Services Manitoba
January 22-23, 2020
Winnipeg, Manitoba
safetyervicesmanitoba.ca

18th Annual Alberta health & safety conference

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hsconference.ca

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Pacific Safety Center
April 6-7, 2020
Vancouver, B.C.
wcs.pacificsafetycenter.com

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partnersinpreventionconference.com ☺

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Tarping loads like these can lead to injuries. Preventing them is a focus for the Wood Fibre Hauling Safety Group.

Wood fibre haulers tackle high injury rates

By Tom Ruffen

Putting competition aside, the Wood Fibre Hauling Safety Group is bringing industry together to tackle the tough problem of high injury rates.

Drivers in the wood fibre hauling industry are at risk for musculoskeletal injuries, which most often occur when pulling or rolling tarps and ropes over trailers to secure each bulk load. Until recently, the task of tarping has been done manually in most chip-hauling operations and in all kinds of environmental conditions, including snow and ice, which can increase the risk of a slip and fall.

“Shoulders are the biggest injury problem, and they generally require surgeries and several months off from work,” says Annie Horning, CEO of the Prince George-based Excel Group, which includes Excel Transportation.

“It’s a huge drain on the driver pool that we have. It’s also very expensive. We’ve seen our insurance premiums skyrocket, so in 2014 we engaged with the BC Forest Safety Council to set up a meeting with various haulers and invited several industry support

groups to create a solution.” The outcome of those discussions was the Bulk Hauler Injury Elimination Taskforce.

The high cost of tarping injuries

In 2017, the taskforce hired a research firm to better understand tarping-related injuries and the available solutions. Their findings showed that 60 percent of all injuries occurred while tarping. The report included WorkSafeBC statistics indicating the average claim cost per year for tarping injuries exceeded \$1.7 million.

In 2018, the taskforce expanded its membership to include several other trucking companies and evolved into the Wood Fibre Hauling Safety Group.

“It’s really an industry safety alliance focused on preventing injuries in the wood fibre hauling sector. The advancement of automatic tarping technologies has been in the forefront,” says Trish Kohorst, taskforce facilitator and BC Forest Safety Council transportation safety program manager.

Competitors became collaborators

Over the past few years, the group has seen its

members put competition aside and focus on the shared goal of making the industry a safer place to work.

“The members are very forthright and open to sharing information with a common goal of reducing injuries and improving safety,” Kohorst explains. “I’ve seen this type of co-operation in other industries and it really benefits worker safety. Competition is left at the door and details are openly shared about the various solutions members are developing.”

Because a large number of injuries come from the tasks associated with tarping loads, the safety group also reached out to a manufacturing company to develop a solution to take the physical demands out of the tarping process.

“We gave them specifications and dimensions of our trailers, as well as the regulatory compliance required from the Commercial Vehicle Safety Enforcement jurisdiction of the Ministry of Transportation,” says Kohorst. “The manufacturer made a significant investment to develop a solution, and continues to refine it after getting a lot of feedback from drivers themselves. Now a few of our members, including Excel, have implemented that technology.”

Prototyping a tarp

Excel Transportation uses automatic tarping innovations from three different manufacturers depending on the trailer involved, Horning notes. “Each system has its own mechanism. The manufacturers have fine-tuned each of them as to what will work best for our trucks and the 53-foot trailers we use to haul fibre residuals like sawdust, shavings, and bark. We now have button control on the side of the trailer itself, so the driver doesn’t have to climb a ladder. Everything can be secured from the ground. The next step for the team is to test the solution in all weather conditions. We still have all the seasonal issues to put these things through like freezing temperatures and winter weather.”

Currently, Excel has 80 to 100 trailers, but only 10 are outfitted in the latest tarping technology, according to Horning. But the company is working on adding more. “Everybody wants to have the auto-tarps because the drivers can run them even after having a shoulder injury. They can return to work sooner.”

Horning adds that the new innovations help to address chronic driver shortages in the driver industry. “We have an older workforce. People aren’t as strong as

they age, but older drivers are able to continue working longer with these auto-tarps. It creates a far greater resource pool when you can eliminate the physical demands on the drivers,” she adds.

Even though it takes a few years to get payback on the initial cost, Kohorst and Horning both say that it’s worth it. The cost of an injury, the loss of quality of life for the worker, and the increased premium costs can end up being much more than the initial investment to prevent the injuries from happening in the first place.

Kohorst estimates that there are roughly 2,000 wood fibre hauling trailers across the province with about 20 trailers now equipped with a range of different auto-tarping systems.

More than just tarping

In addition to focusing on tarping injuries, the group is also looking at other areas to improve driver safety. One of their current projects is to develop an occupational competency standard for training wood fibre truck drivers in collaboration with WorkSafeBC and Northern Development Trust.

“These employers are coming together and putting competition aside in order to make safety a priority for their drivers,” says Trina Pollard, manager in transportation for Industry and Labour Services at WorkSafeBC. “The bottom line is that no driver should have to be injured in the course of their work. This group is committed to making that a reality.”

For more information

To find out more about the Wood Fibre Hauling Safety Group, visit bcforestsafesafe.org. You can also find detailed information on transportation in forestry by searching for “forestry” on worksafebc.com. 📞

“Competition is left at the door and details are openly shared about the various solutions members are developing.”

—Trish Kohorst, transportation safety program manager, BC Forest Safety Council



Motion picture safety 101 moves online

By Marnie Douglas

Actsafe's new interactive online safety course takes users through work in the motion picture industry and the hazards one might encounter along the way.

Movie and television sets can be exciting and glamorous places to work — from working alongside the next Hollywood superhero or stylish actor to making fantastical worlds come to life. However, the motion picture and television industry also has its safety challenges. Sets are like small, makeshift cities with large numbers of crews and actors, and many potential hazards.

With a mixture of brand-new and long-time staff, it's important that everyone is on the same page when it comes to health and safety. That's why Actsafe, the safety association serving B.C.'s motion picture and performing arts sectors, recently launched a unique interactive safety course.

Much-needed course

"The industry identified the need for this course," explains Anand Kanna, Actsafe's manager, motion picture programs and services. "There are 40,000

workers in this industry in B.C. We wanted to come up with a better way to reach them, but in a creative and more interactive way."

The general safety course has always been offered as a four-hour workshop, but with the industry booming over the last few years and so many more workers joining the industry, it was becoming increasingly difficult to deliver.

Plus, many of the workers may only be on set for a week or even a day. "This is basic, high-level safety information that everyone working in the industry needs to know, regardless of how long they are working on a set," says Kanna. "It was becoming challenging to deliver the information in a workshop setting."

Called Motion Picture Safety 101: General Awareness, the online, interactive video game-style course can be completed anywhere with an internet connection at any time. Users play the role of a worker on the set of a movie as they learn about rights and responsibilities, hazard identification and controls, and work practices unique to worksites in motion picture and television production.

Choose your own adventure

The user first learns about safety specific to the production office, followed by a sound stage and a construction shop. From there, Kanna explains that users can choose from any number of modules specific to certain work environments — from the hair and makeup studio to city streets and remote locations. They also learn about health and safety specific to the industry, such as working around various vehicles, stunts, and special effects.

“There are 18 modules and each is modelled after some aspect of the motion picture industry,” he adds.

It takes about five hours to complete and can be completed in parts, all while collecting stars and knowledge along the way. The course is a requirement to become an associate member with the Directors Guild of Canada as well as a permittee with the International Alliance of Theatrical Stage Employees Local 669, the International Alliance of Theatrical Stage Employees Local 891, and the Teamsters Local 155.

Not your everyday hazards

Kim Stubbs, WorkSafeBC industry specialist, says the course is unique in that the film industry is complicated, with so many different roles.

As an example, during pre-production, construction crews need to be aware of potential hazards when using ladders, scaffolds, or power tools. Paint crews

need to know how to work safely with hazardous materials such as paints and solvents. During production, the cast and crew may encounter potential hazards when filming at unusual locations or in remote areas. There’s also the risk of moving objects, slips and falls, and exposure to noise and chemicals.

“There’s a lot of potential for every type of hazard. The interactive online safety course is good at providing awareness on the more common industry-specific hazardous conditions and acts,” says Stubbs. “It’s unique. I’ve never seen something like this in any other industry before.”

The course was launched in January this year and to date, nearly 1,000 people have completed it. Kanna says the feedback has been positive.

“It’s been overwhelmingly supportive. The motion picture industry has always been an early adopter of technology so I’m hopeful that other industries will look to us and this course when considering ways to deliver important safety information,” he says.

Adds Stubbs, “Any tool that can help the employer deliver critical safety information is useful and a benefit. The creativity around this one is great.”

Visit actsafe.ca/courses for more information on the Motion Picture Safety 101: General Awareness course and other safety courses offered to the motion picture and television industry. 🌐



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Tragedies show importance of safe crane operation

By Sarah Ripplinger

BC Crane Safety and WorkSafeBC are raising awareness about best practices for tower crane erection and operation with the message that failure could be catastrophic.

Two ironworkers and two people in cars were killed when a tower crane fell in Seattle, Washington, in April 2019. Two months later, a crane collapsed on an apartment building in Dallas, Texas, taking one person's life, and injuring more. Then in September, residents in Halifax, Nova Scotia, were evacuated after a crane collapse. These incidents underscore the importance of the proper erection, disassembly, maintenance, and operation of tower cranes.

There are around 300 tower crane operators and 40 tower crane erectors and disassemblers in British Columbia. Between 2014 and 2018, about 100 time-loss claims were accepted for operators of mobile, boom truck, and tower cranes for such incidents as falls, overexertion, and impacts with objects. However, no fatalities have occurred as a result of a tower crane incident in B.C. — a fact the industry wants to leave intact.

Preventing catastrophic tower crane failure is a focus of BC Crane Safety and WorkSafeBC's Provincial Crane Inspection Team. BC Crane Safety administers crane operator certification and is closely involved in

shaping the standards and certification protocols governing the approximately 300 tower cranes operating in B.C. at any given time.

The ultimate goal of both BC Crane Safety and the WorkSafeBC crane team is to identify and eliminate tower crane hazards and unsafe work practices that can lead to injuries and tragedies similar to what occurred in Seattle and Dallas.

Identifying potential hazards

In the case of the Seattle tower crane incident, initial reports stated that the crane was being dismantled when it fell onto a busy city street.

"International research suggests that 10 to 12 percent of all fatalities related to crane incidents are caused by tower crane erection and disassembly," notes Angélique Prince, director of certification and licensing with BC Crane Safety.

Supervisors are responsible for ensuring that erectors and disassemblers have the knowledge, experience, and training they need to perform their duties. Moving forward, BC Crane Safety and WorkSafeBC have collaborated to form a technical committee focused on standardization of pre-planning and erection/disassembly activities.

WorkSafeBC officers assigned to the crane team currently review crane pre-erection plans, maintenance

records, and operator qualifications during tower crane inspections.

“On the erection and disassembly side, we’re certainly concerned with pre-planning. We’re also mindful, particularly in the Lower Mainland where we have several tower cranes on one site, how complex that work can become and the importance of supervision,” notes Jaret Swanson, a manager in Prevention Field Services with WorkSafeBC.

Prime contractors should consider time pressures associated with such things as city permits for road closures, adds Prince. Other trade work underway on the site at the time of erection or disassembly should also be taken into account, as it can impact how long it takes erectors and disassemblers to complete the job.

BC Crane Safety has an online pre-erection checklist on bccranesafety.ca that outlines 28 key safety considerations and personnel requirements. The checklist starts with a review of the area where equipment will be installed and how assembly will transpire. Other sections include first aid, traffic control plans, a flight path assessment, site orientations, and fall protection plans for workers.

“A professional engineer must certify the tower crane installation approach, and qualified workers must conduct its assembly,” notes Swanson. More information can be found in [Part 14](#) of the Occupational Health and Safety Regulation, *Cranes and Hoists*.

Meanwhile, owners, prime contractors, and employers need to make sure they are performing risk assessments and documenting regular maintenance checks and any necessary repairs on equipment.

For Swanson, it’s important to remember that fatal incidents show how devastating the consequences can be when work goes off the rails, but they aren’t inevitable. “If the proper processes and procedures are followed, those things shouldn’t happen.”

For more information

Guidelines on operator qualifications can be found in the *Occupational Health and Safety Guideline G14.34 — Operator qualifications and competencies*.

Search for “crane” at worksafebc.com to find more information about the [WorkSafeBC Crane Initiative](#), the [Construction Site Tower Crane Report](#), tower crane inspection checklists, and the [pre-erection checklist](#). ☺

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WORK SAFE BC

Construction

0909597 B.C. Ltd. | \$1,250 | Surrey | June 26, 2019

WorkSafeBC inspected a multi-building commercial construction site where this firm was owner and prime contractor. Multiple workers from several firms were conducting various construction activities, including preparations for a tilt-up construction phase involving the use of a crane to lift several concrete panels. WorkSafeBC determined that the firm's representative was unfamiliar with the safety considerations for a construction operation of this nature, and had not taken steps to ensure the safety of workers. A stop-work order was issued for the panel lifting operation. As owner, the firm failed to appoint a qualified coordinator to ensure the coordination of health and safety activities at the worksite. This was a repeated violation.

596765 BC Ltd. / Renaissance Roofing | \$3,086.20 | Summerland | June 10, 2019

This firm was re-roofing a two-storey commercial building. WorkSafeBC inspected the site and observed two workers on the sloped roof. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to fall risks of greater than 3.7 m (12 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

604 Deconstruction (2017) Ltd. | \$2,568.53 | Vancouver | May 2, 2019

This firm's worksite was the demolition of a two-storey house. WorkSafeBC observed a worker sitting on the ridge of the 4:12 sloped roof. The worker was not using a personal fall protection system and no other form of fall protection was in place, exposing the worker to a fall risk of about 6.1 m (20 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Aaron Micheal Gandy / Convoy Roofing | \$2,500 | Delta | June 11, 2019

This firm's worksite was a multi-storey residential development under construction. WorkSafeBC inspected the site and observed a worker, who was also a supervisor, walking across a sloped roof. The worker was wearing a fall protection harness but was not connected to a lifeline. No other form of fall protection was in place, exposing the worker to a fall risk of about 12.2 m (40 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the supervision necessary to ensure their health and safety. These were both repeated violations.

Advanced Framing Ltd. | \$5,000 | Richmond | June 10, 2019

This firm was framing a new house. WorkSafeBC observed one worker unloading lumber near the leading edge of the second level. The worker was not using a personal fall protection system, and no guardrails or other form of fall protection was in place. This exposed the worker to a fall risk of 3.7 m (12 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

All Terrain Roofing Inc. | \$2,500 | Nanaimo | May 2, 2019

WorkSafeBC observed two of this firm's workers walking on the 4:12 sloped roof of a two-storey house. The workers were not using personal fall protection systems and no other form of fall protection was in place. The firm failed to ensure fall protection was used for work at heights greater than 3 m (10 ft.). This was a repeated and high-risk violation.

Administrative penalties are monetary fines imposed on employers for health and safety violations of the *Workers Compensation Act* and/or the *Occupational Health and Safety Regulation*. The penalties listed in this section are grouped by industry, in alphabetical order, starting with "Construction." They show the date the penalty was imposed and the location where the violation occurred (not necessarily the business location). The registered business name is given, as well as any "doing business as" (DBA) name.

The penalty amount is based on the nature of the violation, the employer's compliance history, and the employer's assessable payroll. Once a penalty is imposed, the employer has 45 days to appeal to the Review Division of WorkSafeBC. The Review Division may maintain, reduce, or withdraw the penalty; it may increase the penalty as well. Employers may then file an appeal within 30 days of the Review Division's decision to the Workers' Compensation Appeal Tribunal, an independent appeal body.

The amounts shown here indicate the penalties imposed prior to appeal, and may not reflect the final penalty amount.

For more up-to-date penalty information, you can search our penalties database on our website at [worksafebc.com](https://www.worksafebc.com). Find it easily by entering the word "penalties" into our search bar.

AMK Environmental (2017) Ltd. | \$2,500 | Surrey | July 8, 2019

This firm was hired to conduct asbestos abatement at a pre-1990 house slated for demolition. WorkSafeBC inspected the site and observed a worker removing drywall that was reported to be free of asbestos-containing materials (ACMs) based on the hazardous materials report provided to WorkSafeBC. Upon further investigation, it was determined that the report had been falsified, and the drywall was in fact asbestos-containing. In addition, no notice of project (NOP) had been submitted, and no clearance letter, air sampling information, or waste disposal records were available. As a consequence, the firm failed to ensure the health and safety of all workers at the worksite, a high-risk violation.

AMS Environmental Ltd. | \$5,000 | Surrey | May 10, 2019

This firm conducted asbestos abatement at a fire-damaged house. WorkSafeBC inspected the site after the firm had issued a clearance letter and the house had been demolished by another firm. WorkSafeBC observed that identified asbestos-containing materials (ACMs) were still on site, including acoustic undercoating, plumbing mastic, a plumbing pipe, and wood debris. This firm failed to safely remove hazardous materials, and failed to confirm, in writing, that the hazardous materials were safely contained or removed. These were both repeated and high-risk violations.

Best on Top Ltd. / Best on Top Roofing | \$2,500 | Nanaimo | May 14, 2019

WorkSafeBC observed two of this firm's workers on the 6:12 sloped roof of a two-storey house. The workers were observed throwing roofing materials off the leading edge of the roof. Neither worker was using a personal fall protection system and no other form of fall protection was in place, exposing the workers to a fall risk of about 6.1 m (20 ft.). The firm failed to ensure fall protection was used, a high-risk violation.

Build Up Construction Ltd. | \$5,000 | Langley | May 13, 2019

This firm was framing a new house. WorkSafeBC inspected the site and observed one worker leaning out of a second-level window, and two other workers at the leading edge of a balcony. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to a fall risk of about 5.5 m (18 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

C.B.S Concrete Ltd. | \$2,500 | Surrey | May 2, 2019

This firm was providing concrete forming services for the construction of a house. WorkSafeBC inspected the site and observed two workers on the top of wall forms, placing and vibrating the concrete. The wall forms were narrower than the required 50 cm (20 in.) minimum width for a work platform, exposing the workers to a fall hazard for working at heights. The firm failed to ensure work platforms used to conduct work at elevation met regulatory requirements. This was a repeated and high-risk violation.

Charlton Contracting Ltd. | \$2,500 | Osoyoos | June 5, 2019

The firm was working on the construction of a new house. WorkSafeBC observed a worker shovelling snow on the 5:12 sloped roof to prepare it for sheeting. The worker was not using a personal fall protection system and no other form of fall protection was in place, exposing the worker to a fall risk of more than 6.4 m (21 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Circle Abatement Inc. | \$2,500 | Delta | May 2, 2019

This firm was completing asbestos abatement work on a house slated for demolition. WorkSafeBC inspected the site and observed that the decontamination facility lacked a water tank, running water, and air monitoring equipment. WorkSafeBC also observed two workers exit the building with respirators that were not adequate for the risk level of the work. WorkSafeBC issued a stop-work order. The firm failed to take the necessary precautions to protect workers before allowing work that would disturb asbestos-containing materials (ACMs), a high-risk violation. In addition, the firm failed to ensure workers used respirators that were adequate for the anticipated level of exposure, a repeated violation. The firm also failed to provide its workers with the supervision necessary to ensure their health and safety.

Clearaway Removal Service Ltd. | \$1,895.79 | West Vancouver | June 11, 2019

This firm had conducted asbestos abatement at a house scheduled for renovation. WorkSafeBC inspected the worksite after the firm had completed its abatement work and issued a clearance letter indicating all asbestos-containing materials (ACMs) had been removed. During its inspection, WorkSafeBC observed that ACMs were still in place, including textured ceiling coat debris, duct tape, and vermiculite insulation. The firm failed to safely contain or remove all hazardous materials, and failed to have a qualified person confirm in writing that these materials had been contained or removed. These were both repeated violations.

CM Environmental Inc. | \$17,786.60 | Burnaby | June 27, 2019

This firm had conducted pre-demolition asbestos abatement at a house and issued a clearance letter indicating all asbestos-containing materials (ACMs) had been removed. WorkSafeBC inspected the site and observed drywall debris, an identified ACM, present in the building. In addition, paper and fibreglass insulation that may have been exposed to airborne asbestos fibres during the abatement had not been removed. The firm failed to ensure that identified hazardous materials were safely contained or removed, a repeated violation.

Craftsman Glass Inc. | \$1,250 | Surrey | May 13, 2019

WorkSafeBC attended this firm's worksite in response to an incident, and ordered the firm to provide a written submission as to how it would ensure the health and safety of its workers. After multiple follow-up communications, the firm had not submitted its compliance measures. The firm is being penalized for failing to comply with a WorkSafeBC order.

Dancar Construction Ltd. | \$2,500 | Coquitlam | May 3, 2019

This firm's worksite was a two-storey house under construction. WorkSafeBC inspected the site and observed two workers, one a representative of the firm, on the trusses of the house. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to a fall risk of up to 9.1 m (30 ft.). WorkSafeBC issued a stop-work order. The firm failed to ensure fall protection was used, a repeated violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both high-risk violations.

Daniel Coal Murphy / Kailen Air Services / MK Demo | \$5,000 | Surrey | April 11, 2019

This firm conducted asbestos abatement at a house that had been demolished. WorkSafeBC inspected the site and observed that uncontained pieces of vinyl sheet flooring, an identified asbestos-containing material (ACM), were present in the debris on site. This was contrary to the clearance letter issued by the firm's qualified person, stating that all ACMs had been removed. The clearance letter did not specify all identified hazardous materials, such as furnace duct tape and bell and spigot joint gasket materials, and did not confirm that these had been removed. The firm failed to safely remove identified hazardous materials, and failed to confirm that these identified hazardous materials were removed. These were both repeated and high-risk violations.

Daniel Coal Murphy / MK Demo | \$5,000 | Vancouver | June 28, 2019

This firm was conducting asbestos abatement at a house slated for demolition. WorkSafeBC inspected the site and issued a stop-work order after observing multiple deficiencies with the firm's work related to asbestos-containing materials (ACMs). The firm failed to take precautions to protect workers before allowing work that would disturb ACMs, a high-risk violation. It failed to take measures to ensure windows and doors were secured to prevent the spread of asbestos fibres into other work areas. The firm also failed to ensure that work areas were cleared of materials other than that required to do the work, and failed to post warning signs at the boundaries of designated work areas. Furthermore, the firm failed to conduct air sampling at least daily during asbestos abatement work. These were all repeated violations. In addition, the firm failed to isolate and control energy sources that could potentially cause injury to workers, a high-risk violation.

D & G Hazmat Ltd. | \$20,000 | Surrey | May 2, 2019

This firm was hired to identify hazardous materials at a house slated for demolition. WorkSafeBC inspected the site after the firm had submitted a hazardous materials inspection report. WorkSafeBC observed vinyl flooring, a potential asbestos-containing material (ACM), present in areas of the house that had not been sampled as part of the hazardous materials inspection. The firm failed to collect representative samples of all potentially hazardous materials, a repeated violation.



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D & G Hazmat Ltd. | \$10,000 | Surrey | May 1, 2019

This firm was conducting abatement of asbestos-containing materials (ACMs) at a house slated for demolition. WorkSafeBC inspected the site and observed a worker engaged in abatement activity without the use of respiratory protection or adequate protective clothing. No respirator fit-test records were available for any of the workers on site. In addition, uncontained debris from drywall, an identified ACM, was visible on the floor and in open bags, and there was no evidence of wetting of materials or a HEPA vacuum in use. WorkSafeBC issued a stop-work order. The firm failed to take the necessary precautions to protect workers before allowing work that would disturb ACMs. This was a repeated and high-risk violation.

EFE Hazmat Ltd. | \$80,000 | Surrey | May 2, 2019

This firm was conducting asbestos abatement at a house slated for demolition. When WorkSafeBC inspected the worksite, the containment poly sheeting had been removed. Drywall joint compound, an identified asbestos-containing material (ACM), was still in place in an auxiliary building. Previously disturbed ACMs also remained in the building and there was no banner tape or other means to warn workers of the hazard. WorkSafeBC issued a stop-work order. The firm failed to safely contain or remove all hazardous materials. This was a repeated and high-risk violation.

Evolve Environmental Services Ltd. | \$5,000 | Surrey | June 11, 2019

This firm had conducted pre-demolition asbestos abatement at a house. WorkSafeBC inspected the worksite after the firm had completed its abatement of asbestos-containing materials (ACMs) and workers were removing non-ACM building materials. WorkSafeBC issued a stop-work order after observing that ACMs were still in place in the building, including chimney firestop material, duct tape, and vermiculite insulation. The firm failed to safely contain or remove all hazardous materials, a repeated and high-risk violation.

Expert Hazmat Ltd. | \$10,000 | Surrey | May 2, 2019

This firm was conducting asbestos abatement at a house slated for demolition. WorkSafeBC inspected the site and observed that the containment and decontamination facilities had not been fully set up, but cabinets, mouldings, and other fixtures had already been removed. Drywall had been disturbed inside the building, and debris piles contained drywall joint compound, an identified asbestos-containing material (ACM). In addition, workers were observed exiting the building without decontaminating. WorkSafeBC issued a stop-work order. The firm failed to contain or remove hazardous materials, and failed to take precautions to protect workers before conducting work that would disturb ACMs, both high-risk violations. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were all repeated violations.

Gerald Bernardin / Bernardin Contracting | \$2,500 | Fort St. John | April 10, 2019

WorkSafeBC observed a representative of the firm on the 5:12 sloped roof of a house under construction. The representative was not using a fall protection system and no other form of fall protection was in place. The lack of fall protection exposed the representative to a fall risk of about 3.7 m (12 ft.). The firm failed to ensure fall protection was used, a high-risk violation.

Go2 Builders Inc. | \$3,358.19 | Nelson | April 16, 2019

This firm was conducting land preparation work at a residential construction site. WorkSafeBC inspected the worksite in response to an incident involving a concrete lock-block retaining wall that was being used to support a nearly vertical excavated bank. A 15 x 15 ft. section of the wall became unstable and collapsed, damaging an excavator. The excavation work, including the lock block wall construction, was required to be done in accordance with the written instructions of a professional engineer. WorkSafeBC determined that no engineering documents were available on site for the excavation and wall construction work. In addition, one of this firm's workers had been standing on top of the retaining wall at the time of the incident, directing excavator operation. No form of fall protection had been in place, exposing the worker to a fall risk of about 4.6 m (15 ft.). The firm failed to ensure fall protection was used. The firm also failed to ensure that excavations were sloped, benched, shored, or otherwise supported as specified in writing by a professional engineer. These were both high-risk violations.

GR Siding Ltd. | \$5,000 | Surrey | May 3, 2019

This firm was installing siding on a two-storey house under construction. WorkSafeBC inspected the site and observed two workers, one of whom was a representative of the firm, standing near the edge of the sloped roof. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to a fall risk of about 4.6 m (15 ft.). WorkSafeBC issued a stop-work order. The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Hazelmere Roofing Ltd. | \$16,406.02 | Burnaby | May 15, 2019

WorkSafeBC observed five of this firm's workers on the 5:12 sloped roof of a detached residential garage. The workers were removing shingles and throwing them off the edge of the roof. None of the workers was using a personal fall protection system and no other form of fall protection was in use, exposing the workers to a fall risk of up to 4.6 m (15 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Hi-Fi Construction Ltd. | \$5,000 | Coquitlam | April 2, 2019

The firm was working on the construction of two houses. WorkSafeBC observed two workers constructing an exterior wall near the leading edge on the second level of one of the houses. Neither of the workers was using a fall protection system and no other form of fall protection was in place, which exposed the workers to a fall risk of about 6.1 m (20 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Highend Creek Custom Homes Ltd. | \$5,000 | Coquitlam | May 2, 2019

WorkSafeBC observed two of this firm's workers carrying out siding activities on the roof of a three-storey house under construction. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing them to a fall risk of up to 9.8 m (32 ft.). A third worker, who was also a representative of the firm, was on a ladder-jack system without the benefit of fall protection and was exposed to a fall risk of 4.6 m (15 ft.). WorkSafeBC issued a stop-work order. At a follow-up inspection, WorkSafeBC observed that further siding work had been completed while the stop-work order was in effect. The firm failed to comply with a WorkSafeBC order. The firm also failed to ensure fall protection was used, and failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were all high-risk violations.

Interior Plumbing and Heating Limited | \$76,942.90 | Kamloops | May 8, 2019

WorkSafeBC observed two of this firm's workers on the top-floor balcony of a multi-storey building under construction. A portion of the balcony's guardrail had been removed and the workers, one of whom was a supervisor, were unloading materials from a forklift through the unguarded section. The workers were not using personal fall protection systems and were exposed to a fall risk of about 15.2 m (50 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the supervision necessary to ensure their health and safety.

Jason Donald Sward / C.T.L. Contracting | \$2,500 | North Vancouver | June 10, 2019

The firm was framing a multi-storey building. WorkSafeBC



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Penalties (continued)

inspected the site and observed workers sheathing the fourth floor without the benefit of fall protection, which exposed them to a fall risk of about 12.2 m (40 ft.). At a subsequent inspection, WorkSafeBC observed workers installing joists on the fifth floor. The workers were not using personal fall protection systems, and no guardrails or other forms of fall protection were in place, exposing the workers to fall risks of up to 18.3 m (60 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Jason Julius McEwan / McEwan Roof Solutions | \$2,500 | Campbell River | June 17, 2019

This firm was re-roofing a house. WorkSafeBC inspected the site and observed three workers, including a representative of the firm, on the 5:12 sloped roof removing roofing materials. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing them to a fall risk of 3.7 m (12 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

J & J Framing Ltd. | \$7,063.80 | Abbotsford | May 15, 2019

This firm was performing framing work at a commercial construction site. WorkSafeBC observed one of the firm's workers standing on a job-built scaffold at a height greater than 4.6 m (15 ft.). The worker was not using a personal fall protection system, and no guardrails or other forms of fall protection were in place. The firm failed to ensure fall protection was used, a repeated and high-risk violation.

John Blaine Jacob / O&C Concrete | \$2,500 | Port Moody | April 30, 2019

This firm supplied formwork for the construction of a new house. When WorkSafeBC inspected the worksite, two workers, one of whom was a representative of the firm, were engaged in the assembly of the concrete foundation formwork. A boom truck with a rear-mounted crane belonging to the firm was on site. WorkSafeBC determined that the truck had not undergone an annual inspection and certification, and a stop-use order was issued. The firm failed to ensure its boom truck was inspected at least annually as required. This was a repeated and high-risk violation.

J.T. Construction Ltd. | \$2,500 | Surrey | May 27, 2019

This firm was conducting renovation work at a pre-1990 commercial structure. WorkSafeBC inspected the site and observed that the ceiling, flooring, and a wall inside the structure had been removed. WorkSafeBC also observed a pile of waste material on the ground adjacent to a waste bin. The pile contained vinyl flooring and drywall, later confirmed to be asbestos-containing materials (ACMs). No hazardous materials assessment had been completed for the site. The firm failed to ensure that, prior to beginning work, a qualified person inspected the structure to identify any hazardous materials. The firm also failed to ensure that all asbestos-contaminated waste was placed into sealed, labelled containers. Furthermore, the firm failed to ensure the health and safety of all workers at the workplace. These were all high-risk violations.

Kenneth R. Manke / Best Price Roofing and Drainage | \$10,000 | Cultus Lake | June 13, 2019

WorkSafeBC observed one of this firm's workers on the 10:12 sloped roof of a house under construction. The worker was near the edge of the roof, pulling an air compressor supply hose. The worker was not using a personal fall protection system and no other form of fall protection was in place, which exposed the worker to a fall risk greater than 8.5 m (28 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Kick Hazmat Ltd. | \$5,000 | Surrey | June 11, 2019

This firm conducted a hazardous materials survey at a house slated for demolition. WorkSafeBC inspected the site and found that asbestos abatement had already taken place. However, no sampling had taken place for window putty, drywall joint compound, and vinyl flooring, all of which are potential asbestos-containing materials (ACMs). WorkSafeBC issued a stop-work order. Subsequent tests determined the presence of asbestos in all three materials. The firm failed to ensure a qualified professional collected representative samples of all potentially hazardous materials. The firm also failed to assess and monitor workplace exposure using occupational hygiene methods acceptable to WorkSafeBC. Both were repeated and high-risk violations.

Kryski & Menelaws Contracting Ltd. | \$3,148.31 | Rossland | June 5, 2019

The firm's worksite was a house under construction. WorkSafeBC inspected the site and observed that worker access to the upper level was via a ladder instead of a stairway as required. The firm failed to provide a stairway to each floor level before beginning construction of the next floor, a repeated violation.

Lyle Marsh / Horizon Roofing | \$2,500 | Campbell River | April 9, 2019

This firm was re-roofing a house. WorkSafeBC inspected the worksite and observed three workers and a representative of the firm on the sloped roof. None of the workers were using a personal fall protection system and no other form of fall protection was in place, exposing them to fall risks of greater than 3 m (10 ft.). The firm failed to ensure fall protection was used, a high-risk violation.

Manjessica Construction Ltd. | \$2,500 | Burnaby | May 3, 2019

WorkSafeBC observed three of this firm's workers engaged in framing activities on the second level of a house under construction. The workers, one of whom was a representative of the firm, were not using personal fall protection systems, and no other form of fall protection was in place. This exposed the workers to a fall risk of up to 5.2 m (17 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the supervision necessary to ensure their health and safety. These were both repeated violations.

MG Roofing and Siding Ltd. | \$6,744.26 | Coquitlam | June 11, 2019

This firm was conducting siding work on a three-storey house under construction. WorkSafeBC inspected the site and observed five workers on the 6:12 sloped roofs. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to a fall risk of up to about 6.1 m (20 ft.). WorkSafeBC issued a stop-work order. The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Milne Roofing Ltd. | \$18,663.34 | Parksville / Nanaimo | April 25, 2019

WorkSafeBC observed three of this firm's workers moving and stacking tiles on a 7:12 sloped roof. None of the workers was using a personal fall protection system and no other form of fall protection was in place, exposing them to a fall risk of about 7.7 m (25 ft.). At another worksite, WorkSafeBC observed two of the firm's workers on a 6:12 sloped roof. The workers were wearing fall protection harnesses but were not connected to lifelines, and no other form of fall protection was in place. This exposed the workers to a fall risk of about 6.1 m (20 ft.). WorkSafeBC also observed that worker access to the roof at this site was via an unsecured, non-compliant ladder. The firm failed to ensure fall protection was used, a repeated and high-risk violation. The firm also failed to ensure that non-self-supporting ladders projected 1 m (3 ft.) above the upper landing and were sufficiently secured.

Moncado Holdings Ltd. | \$2,500 | Kamloops | June 21, 2019

This firm was the prime contractor for the construction of a multi-storey apartment building. WorkSafeBC observed several workers from a subcontracted firm installing siding on a balcony. One worker was standing on a trestle ladder on the balcony while using an elevated work platform as a fall protection barrier. Other workers were observed climbing in and out of the work platform and over the balcony guardrails, as well as leaning on the guardrails to retrieve materials from the work platform. None of the workers was using a personal fall protection system, the guardrails were not built to regulatory requirements, and no other form of fall protection was in place. This exposed the workers to a fall risk of about 12.2 m (40 ft.). The firm failed to ensure fall protection was used, a high-risk violation, and failed to have a written fall protection plan in place as required. The firm also failed to ensure guardrails met acceptable standards. Furthermore, as prime contractor of multiple-employer worksite, the firm failed to ensure that health and safety activities were coordinated, a high-risk violation.

Mondiale Development Ltd. | \$19,017.64 | Vancouver | July 8, 2019

WorkSafeBC inspected this firm's worksite and observed an open excavation. The unsupported excavation was 2.4 m (7.75 ft.) deep with vertical cut walls on three sides. WorkSafeBC determined that one of the firm's workers had been in the excavation to expose a utility line. The firm failed to ensure that, before worker entry, the excavation was sloped, benched, shored, or otherwise supported as required. This was a high-risk violation.

Navco Construction Corp. | \$13,178.88 | Vancouver / Port Coquitlam | May 1, 2019

WorkSafeBC inspected a worksite where this firm was conducting roof repairs. A worker was observed on the roof of the three-storey duplex. The worker was not using a personal fall protection system and no other form of fall protection was in place, which exposed the worker to a fall risk of about 9.1 m (30 ft.). At a second worksite, the firm was replacing the roofs of multiple two-storey buildings at a townhouse complex. WorkSafeBC observed one worker temporarily remove a fall protection harness while working on a 6:12 roof. A second worker was observed wearing a fall protection harness but was not connected to a lifeline. No other form of fall protection was in place, exposing the workers to a fall risk of about 7.6 m (25 ft.). The firm failed to ensure fall protection equipment was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Oscar Romero / Latino's Demolition & Demolition Removal Team | \$1,250 | Langley | June 3, 2019

This firm was conducting asbestos abatement at a house slated for demolition. WorkSafeBC inspected the site and observed that drywall and textured ceiling coat, identified asbestos-containing materials (ACMs), had been removed. Different types of insulation remained in the building. These insulation materials had potentially been contaminated during the abatement process and had not been safely contained. WorkSafeBC issued a stop-work order. The firm failed to safely contain or remove all hazardous materials, a repeated violation.

Payless Painting Ltd. | \$2,500 | Burnaby | June 25, 2019

This firm was painting the exterior of a new house. WorkSafeBC inspected the site and observed two workers painting the roof trim. One worker was standing on a sawhorse on a lower roof, and the other worker was on the peak of an upper 12:12 sloped roof. Neither worker was using a personal fall protection system and no other form of fall protection was in place, exposing the workers to fall risks of up to about 7.9 m (26 ft.). WorkSafeBC issued a stop-work order. The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Pedre Contractors Ltd. | \$80,444.61 | Langley | June 4, 2019

WorkSafeBC inspected this firm's worksite in response to a close call incident. While the firm was excavating a trench, the excavator bucket contacted and damaged a residential natural gas line. The firm failed to ensure that, before excavating with mechanical equipment, it had accurately determined the location of all underground utilities. This was a repeated and high-risk violation.

Purify Environment Inc. | \$2,500 | Coquitlam | May 1, 2019

This firm was conducting asbestos abatement at a house slated for demolition. WorkSafeBC inspected the site and observed four workers inside the work area removing drywall, an identified asbestos-containing material (ACM). The workers were not wearing protective clothing and had no means of decontamination. In addition, the containment was not completely sealed, no negative air unit was in operation, no HEPA vacuum was available, and the workers had no means of wetting materials to control the spread of ACM dust. WorkSafeBC issued a stop-work order. The firm failed to take the necessary precautions to protect workers before allowing work that would disturb ACMs, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety.

Reddings Exteriors Inc. | \$2,500 | Okanagan Falls | February 19, 2019

This firm's worksite was a two-storey house under construction. WorkSafeBC inspected the site and observed three workers, one of whom was a representative of the firm, on the sloped roof applying shingles. None of the workers was using a personal fall protection system and no other form of fall protection was in place, exposing the workers to a fall risk of up to 7.2 m (23.5 ft.). Furthermore, toe-holds installed on the 12:12 pitched dormer roofs at the front of the house did not meet minimum size requirements. The firm failed to ensure fall protection was used, a repeated violation, and failed to use adequate toe-holds on a roof with a slope ratio of 8:12 or greater. These were both high-risk violations.

Riccardo John Divilio / Rick Divilio Construction | \$2,500 | Langley | May 13, 2019

This firm's worksite was a multi-storey townhouse under construction. WorkSafeBC inspected the site and observed a worker on the top plate of the exterior wall. The worker was wearing a fall protection harness but was not connected to a lifeline. No other form of fall protection was in place, exposing the worker to a fall risk of about 6.7 m (22 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Roofing Aces Ltd. | \$2,500 | Nanaimo | June 19, 2010

This firm was re-roofing a pump canopy at a gas station. WorkSafeBC observed three workers on the 8:12 sloped roof. One of the workers was wearing a personal fall protection harness but was not connected to a lifeline, and the other two workers were not using personal fall protection systems. No other form of fall protection was in place, exposing the workers to a fall risk of up to about 6.7 m (22 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Royalcastle Constructions Ltd. | \$10,000 | Surrey | June 25, 2019

This firm was framing a new two-storey house. WorkSafeBC observed several workers on the second level, working on unguarded balconies and next to unguarded openings. None of the workers was using a personal fall protection system and no other form of fall protection was in place, exposing them to a fall risk of about 3.7 m (12 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Sahara Group Roofing Ltd. | \$10,000 | Surrey | May 15, 2019

This firm was re-roofing a two-storey house. WorkSafeBC inspected the site and observed two workers installing sheathing near the edge of the 6:12 sloped roof. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing the workers to a fall risk of 5 m (16.5 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Steadfast Builders Ltd. | \$2,500 | Nelson | June 5, 2019

WorkSafeBC observed two workers sheeting the roof of a new building. The workers were not using personal fall protection systems and no other form of fall protection was in place. This exposed the workers to a fall risk of up to 4.3 m (14 ft.). The firm failed to ensure fall protection was used, a high-risk violation.

Tiger Roofing Ltd. | \$5,000 | Oliver | July 5, 2019

This firm's worksite was a new house construction. WorkSafeBC inspected the site and observed two workers, one of whom was a representative of the firm, installing roofing materials on the 5:12 sloped roof. The workers were wearing fall protection harnesses but were not connected to lifelines. No other form of fall protection was in place, exposing the workers to a fall risk of up to about 6.1 m (20 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Tiki Construction Inc. | \$2,500 | Kelowna | June 7, 2019

This firm was working on the construction of a new house. WorkSafeBC observed one worker on the second-storey exterior wall. The worker was not using a personal fall protection system and no other form of fall protection was in place, exposing the worker to a fall risk of about 5.5 m (18 ft.). The firm failed to ensure fall protection was used, a repeated and high-risk violation.

Trevor Brown & Carol Brown / R Brown & Sons Roofing | \$1,784.82 | Chilliwack | May 15, 2019

This firm was re-roofing a three-storey residential building. WorkSafeBC inspected the site and observed workers on the roof without fall protection. Further investigation revealed insufficient instruction, supervision, and training of the four workers on site, who had been working for a labour contractor and hired by this firm. The firm failed to ensure the health and safety of all workers at its worksite. This was a repeated violation.

Trevor Daniel Dirk Servant / Every Shingle Thing Roofing | \$2,500 | Vancouver | June 12, 2019

WorkSafeBC observed one of this firm's workers removing old roofing materials on the sloped roof of a house. The worker was not using a personal fall protection system and no other form of fall protection was in place, exposing the worker to a fall risk of up to 5.5 m (18 ft.). The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Uppal Plastering & Stucco Ltd. | \$2,500 | Coquitlam | March 22, 2019

WorkSafeBC inspected the site of a two-storey house under construction. Five workers were observed on the sloped skirt roof applying stucco to the building and a sixth worker was observed standing on a non-compliant work platform. The workers were in the direct line of sight of a representative of the firm. None of the workers was using a personal fall protection system and no other form of fall protection was in place, exposing the workers to fall risks of 3.7 to 4.9 m (12 to 16 ft.). WorkSafeBC issued a stop-work order. The firm failed to ensure fall protection was used, a repeated violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both high-risk violations.

WBH Construction Ltd. | \$3,401.72 | Coquitlam | June 14, 2019

WorkSafeBC inspected a pre-1990 house where this firm was conducting renovations. Workers were observed removing drywall and chimney mortar, both potential asbestos-containing materials (ACMs). Drywall dust was visible on the workers' clothing and throughout the building, and no precautions were in place to prevent the spread of ACMs. In addition, no hazardous materials survey had been conducted. WorkSafeBC issued a

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stop-work order. Tests conducted later confirmed the presence of ACMs throughout the site, including in drywall joint compound, chimney mortar and firestop, vermiculite insulation, and vinyl flooring. The firm failed to ensure that a qualified person inspected the building to identify hazardous materials before renovation work began. This was a high-risk violation.

Willness Construction Ltd. / Kelvin Willness Construction | \$2,500 | Salmon Arm | March 27, 2019

This firm's worksite was a house under construction. WorkSafeBC inspected the site and observed three workers, including a representative of the firm, installing plywood sheathing on a 4:12 sloped roof. The workers were not using personal fall protection systems and no other form of fall protection was in place, exposing them to a fall risk of up to 7.3 m (24 ft.). The firm's failure to ensure the use of fall protection was a high-risk violation.

Manufacturing

Fraser Plastics Ltd. | \$8,965.76 | Maple Ridge | June 28, 2019

This firm operates a plastics recycling plant. A delivery truck had delivered bales of plastic materials, which were off-loaded to a staging area. As this firm's lift truck was transferring the materials from the staging area to a storage area, the lift truck struck and seriously injured the delivery truck driver. WorkSafeBC inspected the site and determined that the lift truck had been loaded in a way that did not permit the operator to see around the load while driving. The firm failed to use mobile equipment in accordance with acceptable standards, and failed to ensure the health and safety of all workers at its workplace. These were both high-risk violations. In addition, the firm failed to immediately notify WorkSafeBC of a workplace incident involving a worker injury, failed to ensure that the incident scene was not disturbed, and failed to prepare a preliminary investigation report that included all required information.

Imperial Shake Co. Ltd. | \$13,762.91 | Maple Ridge | July 11, 2019

WorkSafeBC inspected this firm's shake and shingle mill and observed multiple safety deficiencies. The firm failed to ensure its shingle machines and clipper saw boards were fitted with appropriate guards, both high-risk violations. The firm also failed to ensure rotating parts, gear and chain sprockets, and energized electrical equipment were adequately guarded. In addition, it failed to ensure piles of wood products were plumb and level, and failed to ensure gas cylinders were secured to prevent falling during storage or use. Additionally, the firm failed to ensure floor openings were securely covered. Furthermore, the firm failed to conduct regular inspections of its workplace, machinery, and work practices. These were all repeated violations. Finally, the firm's failure to ensure hand-fed shake resaws were fitted with arm guards on the working side of the blade was also a high-risk violation.

Independent Building Material Distribution Inc. | \$8,539.78 | Langley | May 3, 2019

One of this firm's workers was feeding boards through a rip saw. A board kicked back, striking and injuring the worker. WorkSafeBC attended the site and observed that the anti-kickback safeguard features on the saw showed excessive wear. The firm failed to ensure machinery was fitted with safeguards to safely contain any materials ejected by the work process. This was a repeated and high-risk violation.

Quattro Stone & Tile Ltd. | \$6,306.19 | Kamloops | May 28, 2019

This firm operates a stone and tile manufacturing facility, WorkSafeBC inspected the worksite and observed multiple safety violations related to equipment, hazardous materials, and work practices. The firm failed to: ensure that machinery and equipment were fitted with adequate safeguards; implement an exposure control plan for respirable crystalline silica (RCS) dust; make procedures for the lockout of energy-isolating devices available to workers; and protect portable electrical equipment with ground fault circuit interrupters (GFCI) when used in damp locations. These were high-risk violations. In addition, the firm failed to: maintain an effective WHMIS program; keep working space around electrical equipment clear of obstructions; install guardrails on raised mezzanines; keep walkways free of tripping hazards; ensure mobile equipment was used in accordance with safety standards; implement an effective noise control and hearing conservation program; regularly inspect cranes as required; and conduct regular inspections of the workplace. These were repeated violations. Furthermore, the firm failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety.

Rio Tinto Alcan Inc. / Kitimat Plant, Division of | \$662,102.48 | Kitimat | July 19, 2019

WorkSafeBC inspected this firm's aluminum smelter facility in response to an incident. While conducting maintenance work inside a gas treatment centre reactor, two workers were trapped inside the reactor and sustained exposure injuries. WorkSafeBC determined that work had been done without all locks in place as required by the firm's confined space key box procedure. In addition, no record of a risk assessment for the work task was available, and the key box procedure did not name all the participants who applied locks. The firm failed to ensure that energy-isolating devices were locked in a safe position using acceptable procedures made available to all workers required to work on the equipment. This was a high-risk violation.

Teck Metals Ltd. | \$646,302.88 | Trail | May 22, 2019

WorkSafeBC inspected this firm's zinc production facility. During the inspection, a worker was observed walking through an energized equipment area to operate a control panel. No barrier or other safeguard was in place as required to prevent worker access through this hazardous area. The firm failed to ensure equipment was fitted with adequate safeguards to ensure workers could not access hazardous points of operation. This was a repeated and high-risk violation.

Primary Resources

1017317 B.C. Ltd. | \$2,500 | Union Bay | March 27, 2019

WorkSafeBC inspected a worksite where two fallers, one of whom was a representative of this firm, were falling trees. WorkSafeBC determined that the fallers had felled two trees within two tree lengths of each other. In addition, one of the trees lacked sufficient holding wood, which increased the risk of the tree falling in an unintended direction. The firm failed to ensure that all workers were clear of the area within a two-tree-length radius of a tree before it was felled. This was a high-risk violation.

Farmers' Fresh Mushrooms Inc. | \$66,673.50 | Langley | May 8, 2019

During an inspection of this firm's mushroom farming facility, WorkSafeBC detected elevated levels of carbon monoxide when a worker opened the door to a grow room. WorkSafeBC determined that the firm's exposure control plan (ECP) for hazards such as carbon monoxide, carbon dioxide, and low-oxygen atmospheres was inadequate, lacking details about monitoring, ventilation, and administration. In addition, the doors to the facility's grow rooms lacked placards to warn workers about the potential hazards of carbon monoxide and low-oxygen atmospheres. Also, ECP training records and bump test and calibration information was not available. A stop-work order was issued. The firm failed to implement an exposure control plan for conditions where workers could be exposed to hazardous substances. This was a repeated and high-risk violation.

Khazan Labour Contractor Ltd. | \$52,198.60 | Abbotsford | May 27, 2019

WorkSafeBC inspected this firm's worker transportation vehicle in collaboration with the provincial Commercial Vehicle Safety and Enforcement (CVSE) and Employment Standards branches. The inspection identified numerous deficiencies with the vehicle, including issues with the brakes, which had not been identified in the firm's pre-use inspection. WorkSafeBC issued a stop-use order for the vehicle. The firm failed to ensure that vehicles used to transport workers were designed, maintained, and operated in a safe manner. This was a repeated and high-risk violation.

Mobile Data Technologies Ltd. (formerly C&J Energy Production Services - Canada Ltd.) | \$9,530.78 | Tumbler Ridge | June 28, 2019

This firm was operating a service rig for a natural gas well abandonment program. While well tubing was being cleaned of scale, a chemical reaction occurred and hydrogen sulfide (H₂S) was released. One of this firm's workers sustained exposure injuries while a second sustained other injuries while undertaking rescue work. WorkSafeBC's investigation determined that unprotected workers had been permitted to be positioned on top of the rig tank during the circulation of fluids back to the tank from the well, contrary to the industry recommended practice of implementing an exclusion zone around the rig tank during this type of operation. The firm failed to analyze the risks related to the potential release of gases, and to implement safe work procedures accordingly. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both high-risk violations.



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Ridge Valley Farms Ltd. | \$9,298.05 | Abbotsford | May 3, 2019

This firm provides cleaning and labour services to farms. WorkSafeBC attended a worksite in response to an incident where one of the firm's workers was seriously injured. The worker was operating a compact tractor, using its bucket to clean the second level of a poultry barn. During this operation the tractor drove over the edge and fell more than 3 m (10 ft.) to the ground level. The worker was ejected from the tractor and struck the ground. The firm failed to ensure a curb was installed where there was a danger of equipment running off the edge of an elevated area. The firm also failed to develop and implement written procedures for checking the well-being of workers working alone. Furthermore, the firm failed to ensure new workers were given adequate health and safety training and worksite orientation, and failed to provide the information, instruction, training, and supervision necessary to ensure its workers' health and safety. These were all high-risk violations.

Shell Canada Limited | \$165,301.24 | Tumbler Ridge | June 28, 2019

This firm was the prime contractor at a natural gas well abandonment worksite. While well tubing was being cleaned of scale, a chemical reaction occurred and hydrogen sulfide (H₂S) was released. Three workers at the site sustained exposure injuries and a fourth sustained other injuries while undertaking rescue activities. WorkSafeBC's investigation determined that the tubing had been used previously at another well site and was contaminated, causing the chemical reaction and the H₂S release. The employer did not have an effective detection and mitigation program in place for the use and transfer of contaminated steel tubing between different work locations. In addition, the firm had not conducted a risk assessment, created written procedures, or provided information to workers and subcontractors about the potential release of H₂S during the descaling operation. The firm's failure to analyze the risks related to the potential release of gases, and to implement safe work procedures accordingly, was a repeated violation based on a violation occurring at another of the firm's locations. The firm also failed to ensure the health and safety of all workers at its worksite, and failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were all high-risk violations.

Timberland Ventures Inc. | \$2,500 | Cumberland | April 25, 2019

WorkSafeBC inspected a worksite where this firm was hand falling trees. During its inspection, WorkSafeBC determined that a representative of the firm had felled a tree within two tree lengths of workers from another firm. The firm failed to ensure that all workers were clear of the area within a two-tree-length radius of a tree before it was felled. This was a high-risk violation. The firm also failed to ensure the health and safety of all workers present at a workplace at which that employer's work is being carried out.

Trican Well Service Ltd. | \$79,393.80 | Farmington | May 3, 2019

This firm's worksite involves large industrial equipment used in oil and gas hydraulic fracturing operations. WorkSafeBC inspected the site in response to an incident where a worker was conducting a repair on a conveyor and the worker's hand was caught between a roller and the conveyor belt. The inspection determined that guarding on the conveyor had not been in place at the time of the incident. In addition, the conveyor had not been locked out and had remained energized and operational. The firm failed to ensure machinery was locked out, a high-risk violation. The firm also failed to ensure machinery was fitted with adequate safeguards to protect workers from contact with hazardous power transmission parts, a repeated violation.

Westhills Aggregates Limited Partnership | \$19,606.41 | Penticton | June 7, 2019

WorkSafeBC inspected this firm's worksite in response to an incident. While excavating a trench, an excavator struck a buried electrical cable, and a worker inside the trench received an electrical shock from the severed cable. The firm failed to ensure that, before excavating with mechanical equipment, it had accurately determined the location of all underground utilities. This was a repeated and high-risk violation. WorkSafeBC also determined that two workers had been working inside the excavation, which had a depth of about 4 m (13 ft.). The firm failed to ensure the excavation was sloped, shored, benched, or supported as required, or to obtain a report from a qualified professional confirming it was safe for worker entry. This was a high-risk violation.

Trade

Kwong Man Sang Company, Limited | \$22,250 | Richmond | April 15, 2019

This firm transported a pressurized tank of ammonia to its parking lot. About three weeks later, one of the firm's workers set up a large tote of water and attempted to release the ammonia from the tank into the water. The next day, a worker from another firm arrived in the parking lot, smelled the ammonia, and sustained exposure injuries. Emergency responders found one of the tank valves had not been closed. WorkSafeBC investigated the incident and determined that the firm had not provided its worker with training, safe work practices, or adequate personal protective equipment for handling a hazardous product such as ammonia. The firm failed to ensure that workers were trained in the safe use, handling, and disposal of hazardous products. The firm also failed to ensure the health and safety

of all workers at its worksite, where its work was being carried out. These were both high-risk violations.

Service Sector

**517140 B.C. Ltd. / Super Wash on Main | \$2,500 |
Penticton | May 16, 2019**

WorkSafeBC investigated an incident at this firm's car wash facility. A worker used a ladder to access a mezzanine that housed a water tank for the car wash. The ladder and the worker fell, and the worker sustained fatal injuries. The investigation determined the ladder was not suitable for use, workers had not been adequately trained about the use of portable ladders, and there was no safe access to or guards or guardrails around the mezzanine. Furthermore, the firm had not provided adequate worker orientations, had not adequately supervised its workers, and did not have a health and safety program. Overall, the firm failed to ensure the health and safety of its workers. This was a high-risk violation.

**Boaz Enterprises Ltd. / Glenwood Hotel | \$2,500 | Trail |
February 20, 2019**

This firm's worksite was a pre-1990 hotel building undergoing extensive renovations. WorkSafeBC inspected the site and observed that workers had already completed the majority of the demolition work. WorkSafeBC determined that a sampling report had been prepared to identify if waste material contained asbestos, but an inspection had not been conducted to identify whether the building itself contained asbestos or other hazardous materials. The firm failed to ensure that, prior to demolition work beginning, the building was inspected to identify any hazardous materials. This was a high-risk violation.

**Canadian Mobile Lab Ltd. | \$1,250 | Vancouver |
June 27, 2019**

This firm had conducted a hazardous materials survey at a pre-1990 house slated for demolition. WorkSafeBC inspected the site and observed deficiencies in the firm's procedures for sampling potential asbestos-containing materials (ACMs). The firm failed to take sufficient representative samples of potentially hazardous materials, a repeated violation.

**Craftsman Collision (1981) Ltd. | \$126,226.80 |
Abbotsford | June 3, 2019**

This firm operates an auto body shop. WorkSafeBC inspected the site and observed a worker sanding a vehicle in preparation for painting. The worker was not clean-shaven, which compromised the seal of the worker's respirator. The firm failed to ensure workers were clean-shaven to create an effective seal between respirator and face. This was a repeated violation, based on prior violations that had occurred at the firm's other locations.

**Hyon Bedding Ltd. | \$5,000 | Prince George |
April 15, 2019**

This firm sorts and bags sawmill wood shavings for secondary processing. WorkSafeBC inspected the workplace and observed



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accumulations of wood dust on surfaces throughout the facility, including near ignition sources such as drive motors and electrical devices. The firm failed to control and remove hazardous accumulations of combustible dust, a repeated and high-risk violation.

Iron Bay Holdings Ltd. / Shine Shack Home Services | \$2,500 | Port Moody | May 14, 2019

This firm was cleaning the gutters of an apartment complex. WorkSafeBC observed two workers at the peak of a sloped roof, not using personal fall protection equipment. The workers were then observed putting on fall protection harnesses but did not connect to lifelines. No other form of fall protection was in place, exposing the workers to a fall risk of up to 13.7 m (45 ft.). In addition, no written fall protection plan was available on site. The firm failed to ensure fall protection was used, a high-risk violation. The firm also failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. These were both repeated violations.

Kinetic OHS Services Ltd. | \$3,769.57 | Vancouver | May 2, 2019

This firm performed a pre-renovation hazardous materials inspection at an apartment building. WorkSafeBC inspected the site after the firm had issued a clearance letter indicating all asbestos-containing materials (ACMs) had been removed. Vinyl sheet flooring, a potential ACM, was observed to still be in place in multiple locations. A review of the hazardous materials report determined that vinyl sheet flooring had not been adequately sampled or tested. The firm failed to collect representative samples of all potentially hazardous materials, a repeated violation.

Mainstreet Equity Corp. | \$28,346.71 | Surrey | June 25, 2019

This firm owns and manages a pre-1990 multi-building apartment complex. Another firm had been contracted to do installation work that involved drilling into walls throughout the complex. WorkSafeBC inspected the site and observed that drywall and textured coat material had been disturbed. Both materials were identified as asbestos-containing materials (ACMs) in the buildings' asbestos inventory. The owner had not provided the asbestos inventory to the contractor, and no notice of project (NOP) had been filed. As owner of the workplace, the firm failed to maintain the premises in a manner that ensured the health and safety of people at the workplace, and failed to give employers the information required to eliminate or control health and safety hazards. This was a high-risk violation.

The Cankut Enterprises Ltd. / Tropicana Motor Inn | \$2,500 | Vancouver | May 2, 2019

This firm operates a pre-1990 hotel building. When WorkSafeBC inspected the worksite, the firm did not have an inventory of all asbestos-containing materials (ACMs) in the building as required. Despite follow-up inspections and being ordered by WorkSafeBC to do so, the firm failed to have a qualified person collect representative samples of suspected ACMs, determine whether each of the samples were ACMs, and prepare an inventory of all ACMs in the workplace.

Tsetsaut Ventures Ltd. | \$159,811.52 | Brucejack Lake | May 7, 2019

This firm was providing operational support at a mine. A new worker in a machine shop was inflating a tire on a rim assembly when the rim assembly blew apart. The components struck and fatally injured the worker. WorkSafeBC's investigation determined that, at the time of the incident, the firm did not have an adequate health and safety program. The firm also did not have safe operating procedures for rim assembly and disassembly, or for tire inflation. In addition, there was no evidence that the worker had received a site orientation or new worker training. This firm failed to ensure that its workers were made aware of all known health or safety hazards, and failed to provide its workers with the information, instruction, training, and supervision necessary to ensure their health and safety. In addition, the firm failed to ensure that new workers were given health and safety orientation and training prior to beginning work, and failed to ensure the health and safety of all of its workers. The firm also failed to establish occupational health and safety policies and programs, and to ensure that it complied with regulatory requirements. These were all high-risk violations. Furthermore, the firm failed to maintain a joint health and safety committee.

Trade

Imraj Holding Enterprises Ltd. | \$5,000 | Penticton | June 12, 2019

A WorkSafeBC officer visited this firm's worksite as a follow-up to a previous inspection. During the visit, a representative of the firm became verbally abusive and threatening toward the officer, and the officer was unable to complete the inspection. The firm is being penalized for hindering, obstructing, or interfering with an officer in the performance of functions and duties under the *Workers Compensation Act*. Furthermore, the firm failed to comply with WorkSafeBC orders to attend a meeting to answer questions related to this incident.

Transportation & Warehousing

Kurt Leroy Trucking Ltd. | \$29,765.87 | Eve River | June 14, 2019

WorkSafeBC inspected this firm's log transporter, and observed cracks on the support brackets of the transporter's cab guard. The firm failed to remove its log transporter from service when damage decreased the rated capacity of the cab guard. This was a high-risk violation. In addition, the firm failed to ensure that the results of start-of-shift inspections of cab guards were recorded, and failed to ensure that the angle between the transporter's bunks and stakes did not exceed 90 degrees. These were both repeated violations based on violations occurring at the firm's other locations. Furthermore, the firm failed to ensure that its cab guard was permanently marked with a legible identification plate identifying make, model, serial number, and rated capacity.

Injunctions

Injunctions are court orders from the Supreme Court of B.C. that require a person or business to comply with the *Workers Compensation Act*, occupational health and safety requirements, or a WorkSafeBC order. Injunctions may also restrain the person or company from carrying on work in their industry for an indefinite or limited period, or until the occurrence of a specified event.

WorkSafeBC may pursue an injunction when there are reasonable grounds to believe that a person or company has not complied, or is not likely to comply, with the Act, the Occupational Health and Safety Regulation, or an order. WorkSafeBC may pursue an injunction in addition to other remedies under the Act, such as an administrative penalty.

The injunction summaries in this section are listed alphabetically by respondent. Each summary shows details from the court order, which may include the firm name, the name of the respondent(s), the industry to which the order relates, and the directions from the court.

To see up-to-date injunctions or to read these court orders in their entirety, visit worksafebc.com/injunctions.

Baaz Roofing Ltd. | August 2, 2019

On August 2, 2019, the Supreme Court of British Columbia ordered that Baaz Roofing Ltd., a firm engaged in the roofing industry in British Columbia, and its principal, Arshdeep Singh, are restrained from continuing or committing contraventions of Part 3 of the *Workers Compensation Act*, and the Occupational Health and Safety Regulation, and are required to comply with Part 3 of the Act, and the Regulation, in the future.

IG Roofing Ltd. | August 13, 2019

On August 13, 2019, the Supreme Court of British Columbia ordered that IG Roofing Ltd., a firm engaged in the roofing industry in British Columbia, and its principal, Hardeep Singh Parmar, are restrained from continuing or committing contraventions of Part 3 of the *Workers Compensation Act* and section 11.2 of the Occupational Health and Safety Regulation, and are required to comply with Part 3 of the Act and section 11.2 of the Regulation in the future.

MK Construction Ltd. | June 7, 2019

On June 7, 2019, the Supreme Court of British Columbia ordered that MK Construction Ltd., a firm engaged in the framing industry in British Columbia, and its principals, Bhupinder Singh Sandhu and Harkewal Singh Sandhu, are restrained from continuing or committing contraventions of the *Workers Compensation Act* and the Occupational Health and Safety Regulation, and are required to comply with the Act and Regulation in the future.

Rainstorm Roofing Ltd. | August 9, 2019

On August 9, 2019, the Supreme Court of British Columbia ordered that Rainstorm Roofing Ltd., a firm engaged in the roofing industry in British Columbia, and its principal, Gurpreet Singh Natt, are restrained from continuing or committing contraventions of section 11.2 of the Occupational Health and Safety Regulation, and are required to comply with section 11.2 of the Regulation in the future.



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