



BC Forest Safety

Safety is **good** business

ANNUAL REPORT 2017



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Why we exist

WHO WE ARE:

The British Columbia Forest Safety Council (BCFSC) is the health and safety association (HSA) for forest harvesting, sawmills and pellet manufacturing in British Columbia. We are also one of WorkSafeBC's Certificate of Recognition (COR) certifying partners. COR is an optional program that some employers choose, in addition to their SAFE Certification.

The BCFSC works with forest sector employers, workers, unions, contractors and provincial government agencies to support industry in implementing changes necessary to eliminate fatalities and serious injuries in the forest sector.

HISTORY:

The BCFSC was created in September 2004 as a not-for-profit society dedicated to the health and safety of forest workers.

The creation of the BCFSC, and its initial focus and tasks, were set out in the report (2004) of the Forest Safety Task Force, which created a comprehensive strategy to improve safety in the BC forest sector.

The values, beliefs and commitments that form the basis of the BCFSC and its work are set out in the Forest Safety Accord.

THESE ARE OUR KEY BELIEFS THAT FORMED PART OF THE ORIGINAL FOREST SAFETY ACCORD:

- All forestry fatalities and injuries are preventable.
- The safety of forestry workers is an over-riding priority.
- Safety excellence is key to the long-term success of our industry.
- Injury prevention is most effective when industry (rather than regulation) leads the change.

THE FUTURE:

The BCFSC will continue to work with government and industry on safety solutions, with an increased focus on technological and other innovations. We will actively seek opportunities for partnerships to achieve industry-wide innovative applications that improve safe performance. Our core focus remains unchanged: to see every worker return home safely.





Ken Higginbotham.

In my final year, 2017, as Chair of the BC Forest Safety Council, I am pleased to report that I feel industry is well-positioned to continue strongly on its path of continuous improvements in safety.

I would like to believe that the forest industry and WorkSafeBC have made significant strides together in improving safety outcomes for a broad range of workers in our province's forest industry. The 2012 sawmill explosions were a tragic event that industry learned from, stimulating a renewed focus in both harvesting and manufacturing to make workplaces ever more safe.

Technological advancements support continuous improvements

I believe the advances that have occurred over the past several years on the technology front as well as top-down and boots-up commitment to safety have taken us a long way in reducing serious injuries. I remain concerned, however, that we have not been able to drop off the plateau of 10 fatalities in each of the past three years in forest harvesting. In reflecting on each of those 30 incidents — as diverse as they were — the high risk activities remained consistent — log hauling, falling, and machine operation, where bad weather, road conditions, speed, and production pressures were repetitive contributing causes.

Knowing there is some consistency is no consolation when similar incidents repeat themselves.

While we surge ahead with technological innovation that will take more workers out of the bite and put fallers in the clear and where we further engineer processes both in manufacturing and harvesting to further reduce the risk (advanced guarding, barcode electromagnetic scanning and camera use whether with fallers or on grapple yarders), the human factors remain.

Safety management systems must

continue to advance with provision of sufficient fail-safes and redundancies to protect us from ourselves. Once the content of science fiction, today we have drones, camera assist and remote control -assist machine and vehicle operation and even electromagnetic scanning of barcodes in hard hats to prevent machines getting too close to ground crews. So what does all this technology and innovation mean for safety in our forestry sectors?

Well, for one thing, it challenges how we look at the forestry work places of the future. It challenges how we think about the future workforce and the future safety challenges they will face.

Like most change, it is slow until it is upon us and there are the big step changes but most often there are the small incremental changes. For us though, the 2020s will bring a number of significant changes together all at once.

Workforce changes will have profound impacts on safety and operations

Five generations in the workplace will then be overwhelming the current youngest working generation. We have said for several years, that we have a future labour shortage.

It is important that our training experience for these new workers is as rich in experience and available to them when and how they want to access it — a competency based system that rewards milestones at the time and pace best suited to the individual learner — much less prescription around time and place — and much more about proving that learners not only understand the concepts but can then apply them and demonstrate they have acquired the skill.

Equally as employers we need advanced compliance assurance to demonstrate our due diligence in ensuring effective training that ensures a qualified, competent, confident work force that has the skills and knowledge to perform safely.

The revised faller training program has taken more than two years to build so far and is being piloted in 2018 for a final product to be submitted to WorkSafeBC in later 2018 for roll-out to industry in 2019.

Other occupancies such as log truck driver training and assessment are currently in the pilot phase and a total of 37 occupations are in various stages of development.

Continuing to strengthen relationship with the regulator

I have been particularly impressed with the fact that industry and the regulator have been able to effectively collaborate in important ways over the past several years and in particular in 2017.

It is my hope that this will continue, as we do all share one focus: to help get every worker home safe at the end of the day. When we work together we are far more effective in supporting the best outcomes for workers.

Industry commitment to safety remains strong

I am a steadfast believer that when safety comes first production and outstanding performance will follow.


Industry must continue its unwavering commitment to reducing fatalities. I am confident that with the continued commitment of industry senior leadership to this quest – at both large and small companies as well as at the senior levels of WorkSafeBC – industry will secure continuous improvement in safety and operational performance.

Safety really is good business.

In closing, I would like to extend my sincere appreciation to my fellow Board members, all staff, contractors, trainers and the countless members of industry who give tirelessly of their time, expertise and experience to make a difference in our industry's safety performance.

I would also like to thank WorkSafeBC and members of government who have worked consistently to support and promote a safer forestry industry in our province.

Thank you for your continued dedication and commitment to safety,



Ken Higginbotham
Chair, Board of Directors
BC Forest Safety Council
December 2017

Building sustainable solutions to recurring safety challenges



Rob Moonen.

2017 saw the organization focus on completing the building of 35 occupations in Falling, Yarding, Mechanized Harvesting, Road Building, Transportation, Training and Assessment.

These new standards, guidelines and educational materials will provide companies with current information on how to ensure their workers are competent and qualified to do the work. Companies can use these tools to develop new workers or to analyze current workers and practices to identify gaps.

As industry works to secure the workforce of tomorrow, technological and other challenges mean that we need to continue to adapt to new opportunities while keeping safety as one of our shared, core goals.

We have come a long way in 10 years; and the days of 80 fatalities a year in BC forestry are hopefully forever part of our past. Yet, in 2015, 2016 and 2017 we had 10 fatalities in each of the three years. What has changed in the past two years is where the fatalities are happening. Falling in the past has been the leading area for fatalities. While 27.3 fallers out of every 100 (and there are about an estimated 2,500 active fallers in BC currently) are injured each year, the fatality rate for fallers has dropped. An emerging trend is that 50% of fatalities are now log truck drivers.

This is concerning for many reasons. I believe it is the highest risk to our industry and our social license to operate and something we need to address.

BC log haulers have consistently in the last two years — in BC Forest Safety Council/Trucking and Harvesting Advisory Group surveys — raised road conditions / maintenance, speed and fatigue as their three biggest safety concerns (in that order).

The work that industry is doing with FPIInnovations and others around fatigue is very important in allowing industry to explore the specific factors that impact log

haulers' fatigue and find workable solutions. Many are taking very innovative approaches — from testing technology in cab to changing shift times and even haul routes/haul quantities and haul hours to try and best address the increased risks faced by fatigued workers, especially on night shifts.

While more than 50% of the organization's time and resources have been devoted to new program, training, assessment and other tools to best support the current and future workforce, we have continued in the past year, to continue to recognize and support industry in the behavioural impacts of our actions and those of our colleagues. Every forestry worker, no matter what he or she does, has the ability to influence others on the worksite and beyond. In that sense, we are all leaders. Each of us sets the example and expectation for safe or unsafe behaviour in every action we take. We can choose to talk safety but it is only when we walk the talk that we lead by example.

And more, we need to support workers with the skills and confidence to say no to unsafe work and to say the right thing when they observe a co-worker doing something unsafe. This takes courage but it has to become an expected and consistently shared value throughout industry so that no-one looks the other way. We must support and reward those that show us how we make safer, more respectful, and healthier work places.

I would like to extend a special thank you to our outgoing board chair, Ken Higinbotham, for his unwavering commitment to our organization, industry and safety. Ken has left us in a much stronger position thanks to his steady, considered, trusted and respectful leadership. His contributions to furthering safety in forest harvesting and manufacturing in BC are significant in no small part due to his ability to build consensus and develop long-term relationships with key stakeholders and influencers. We wish Ken a wonderful retirement.

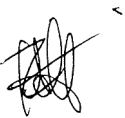
I look forward to working with our incoming chair, Dave Lehane and incoming new board members.

I would also like to thank the rest of the board of directors and staff for continuing to champion safety in their workplaces and across industry from surveying, planning, planting through to falling, harvesting and hauling to sawmills and pellet mills.

In 2018, a great deal of time, resources and industry investment will continue in the development of new faller training materials and assessment tools. We will see this work piloted in 2018 with anticipated roll-out to industry in 2019 following acceptance and approval by the regulator, WorkSafeBC, by the end of 2018.

Much of the 2018 work will be dependent on securing much needed training development funding from the BC Government to support ensuring our province remains competitive in a global market place and that our youth and future generations have the skills, knowledge, competencies and experience to work well and safely no matter what career they choose.

Our industry's safety success is dependent on your continued commitment and support. Thank you.



Rob Moonen
Chief Executive Officer
BC Forest Safety Council

April 2018

Led by industry

BOARD CHAIR

Ken Higginbotham (*retired December 2017*); Dave Lehane (*effective March 22, 2018*)

COMMITTEES OF THE BOARD

There are four Committees of the Board, each with mandated responsibilities as follows:

- ◇ **Governance Committee**
Advises the Board on governance matters including Board effectiveness and Council membership, along with setting the process for recruitment, appointment and ongoing development of Directors
- ◇ **Audit and Finance Committee**
Provides oversight to the annual work plan budget, financial information and policies, internal control systems and the audit process
- ◇ **Human Resources Committee**
Helps the Board meet its human resources obligations covering senior management recruitment, compensation and succession planning
- ◇ **Program Committee**
Gives the Board advice and recommendations on issues related to the effectiveness of Council's certification, training and other safety programs.

BOARD COMMITTEE CHAIRS

Vice Chair and Governance Committee Chair: Reid Hedlund

Audit & Finance Committee Chair: David Elstone

Human Resources Committee Chair: Stephen Mackie

Program Committee Chair: John Betts

BOARD MEMBERS and their years of service to the Board

Brian Baarda

Chief Operating Officer, TimberWest — one year

John Betts

Executive Director, Western Forestry Contractors' Association — 14 years

David Elstone

Executive Director, Truck Loggers Association — 2.5 years

Jason Fisher

Associate Deputy Minister, Forest Sector, Ministry of Forests, Lands, Natural Resource Operations and Rural Development — 2 years

James Gorman

Vice-President, Corporate and Government Relations, West Fraser — 3.5 years

Reid Hedlund

Chairman, Interior Logging Association — 10 years

Andrew Horahan

Vice President, BC Operations, Interfor Corporation — 2 years

Stephen Mackie

Senior Vice President, Canadian Operations, Canfor — 2.5 years

Robert Matters

Chair, United Steelworkers Wood Council — 4.5 years

The BC Forest Safety Council’s membership includes forest industry organizations (1) representing workers, employers, government and crown corporations.

(1)“forest industry organization” means any firm, corporation, agency, governmental authority, society, other person, whether incorporated or unincorporated, which, as its primary purpose, participates in, regulates or provides services to the British Columbia forest industry; including forest sector companies that financially contribute to a classification unit(s) that support the BC Forest Safety Council (BCFSC) activities.

The forest industry pays for the BCFSC through a request to WorkSafeBC by industry to assess a fee to the classification units that make up the “in woods forest industry”. Any company that supports the BCFSC through this industry assessment is eligible to become a voting member by sending a notice to the BCFSC which is then reviewed by the Governance Committee.

As at December 31, 2017, the BCFSC had **63 voting members** as follows (in alphabetical order):

1. Akehurst and Galvani Reforestation Ltd.
2. Apex Forest & Wildfire Services Ltd.
3. BC Community Forest Association
4. Blue Thunder Contracting Ltd.
5. Boom Bay Contracting
6. Brinkman & Associates Reforestation Ltd.
7. C.A.S. Forest Care Ltd.
8. Canadian Forest Products Ltd.
9. Carney’s Falling Ltd.
10. Cecil Hill Contracting Ltd.
11. Coast Forest Products Association
12. Contract Falling Association of BC
13. Copcan Contracting Ltd.
14. Council of Forest Industries
15. D/T Blasting Ltd.
16. Daniel Boyd Fretts dba Windfall Enterprises
17. Federation of BC Woodlot Associations
18. Folklore Contracting Ltd.
19. Frost Lake Logging Ltd.
20. Gorman Bros. Lumber Ltd.
21. Greenpeaks Resource Management Ltd.
22. Helifor Canada Corporation
23. Hytest Timber Ltd.
24. I. Crosby Contracting Ltd.
25. Independent Wood Producers Association
26. Interior Logging Association
27. Interior Lumber Manufacturers’ Association
28. International Forest Products Limited
29. Island Timberlands Limited Partnership
30. Joe Dowe Enterprises Ltd.
31. Keith Barendregt & Kathy Barendregt dba Keila Contracting
32. Ministry of Forests, Lands, Natural Resource Operations and Rural Development
33. M.S.M. Falling Ltd.
34. Namgis First Nation & Atli Resources Corporation
35. Newco Logging Ltd.
36. North West Loggers Association
37. P.L.R. Log Contracting Ltd.
38. Sibola Mountain Falling Ltd.
39. Sladey Timber Ltd.
40. Slew Foot Logging Ltd.
41. Smokey River Holdings Ltd.
42. Spectrum Resource Group Inc.
43. Stones Bay Holdings Ltd.
44. Strategic Natural Resource Consultants Inc.
45. Summit Reforestation & Forest Management Ltd.
46. Superior Selfloading Ltd.
47. TDB Consultants Inc.
48. Timberline Reforestation Ltd.
49. TimberWest
50. Topknot Timber Co. Ltd.
51. Trevor Bennett Trucking Ltd.
52. Truck Loggers Association
53. Ts’kw’aylaxw First Nation
54. United Steelworkers–IWA Council
55. Van Isle Falling Ltd
56. W and E Services Ltd.
57. W.D. Moore Logging Co. Ltd.
58. West Fraser Mills Ltd.
59. Western Fallers’ Association
60. Western Forest Products
61. Western Forestry Contractors’ Association
62. Weyerhaeuser Company Limited
63. Zanzibar Holdings Ltd.

In 2017 the BC Forest Safety Council's training and program development department had a focus on the new competency guidelines and populating the new Forestry Learning Centre training system, in addition to continuing to deliver the BCFSC's broad range of training courses around the province.

Strong demand

Demand for training remained strong in 2017 with total of 1,833 workers and supervisors trained (1,823 in 2016). *(Please see the green table below for details of specific course attendance numbers.)*

Over the past two years there has been an increased demand for requested training. Requested training is any course delivered at the company or contractor's workplace at the time and place that works best for them. This type of training is popular (361 seats delivered in 2017; 281 seats delivered in 2016) as it saves companies money and the training is held when it fits in with their schedules.

There is also the potential to have particular content tailored specifically to the audience needs especially where contractors all work for the same licensee, for example.

Resources aligned with industry needs

A range of workshops and special presentations were provided again in 2017 as well, three safety conferences were coordinated in Prince George, Vernon and Nanaimo. Workshops were delivered for industry groups.

Work continued in 2017 by the training department with industry falling experts to develop a new program for training new fallers. This work supports the recommendations of the August 2015 Deloitte report which identified several areas of improvement with the current BC Faller Training Standard. The training program is being piloted in 2018 and once

finalized and approved by WorkSafeBC, will be rolled out to industry in 2019.

In 2017, building on the competency guidelines that were created for six cable yarding occupations in 2016, competency guidelines were developed for 30 more occupations.

Employers need to be able to assess their workers to make sure they are qualified and have the knowledge and skills necessary to do their jobs safely. Online learning resources were also created to help those yarding workers who are new to the job or have gaps in their knowledge.

Assessment process is key

Qualified assessors and trainers are also part of this program. These are individuals who have been trained to understand and apply these standards and guidelines at a forestry workplace. The trainers are competent and qualified and to train and mentor new and existing workers so they can meet the standard.

Assessors are individuals who are competent and qualified to compare

workers against the standard to determine if they meet the program outcomes or not.

Assessment tools were developed, field tested, and implemented for 35 occupations in Falling, Yarding, Mechanized Harvesting, Road Building, Transportation, Training and Assessment during the year.

In addition as part of continuous improvement in training materials, the Supervision training modules and the Incident Investigation training program were updated to maintain alignment with regulation and industry best practice.

Online training was also developed for forestry fundamentals and for new SAFE Companies who were moving across from a recognized COR certifying partner such as Energy Safety Canada, SafetyDriven or the BC Construction Safety Alliance.

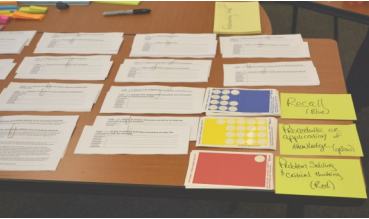
In 2018, scheduled and company requested training courses will continue to be delivered across the province. The content and delivery of the training will be continually improved and more training will be offered online through the

1,833 PARTICIPANTS IN TRAINING COURSES IN 2017

Individual Owner Operator	107
Individual Owner Operator Refresher	4
Individual Owner Operator Refresher Online	29
Small Employer Occupational Health and Safety	290
Small Employer Occupational Health and Safety Online	54
Small Employer Occupational Health and Safety Refresher	27
Small Employer Occupational Health and Safety Refresher Online	79
Internal Auditor and Refresher	46
External Auditor	6
External/Internal Auditor Teleconference	215
Forest Safety Overview	64
Basic Incident Investigation	172
Advanced Incident Investigation	38
Forest Supervisor	471
Falling Supervisor	74
Basic Chainsaw Operator	157
Total number of participants	1,833

new online learning management system. The training department will continue to support safety conferences in Vernon, Prince George and Nanaimo.

Industry will again be involved with building training and assessment tools to help develop their workers. A total of 33 additional occupational guidelines covering mechanized logging, road building, transportation and silviculture will be developed with the help of industry experts.



Various training session activities that took place in 2017.

More verification visits & shorter audit turn around times



Work progressed on two key fronts within SAFE Companies in 2017, specifically around increasing outreach activities and in-person visits as well as further fine-tuning internal processes to better serve SAFE certified company needs.

We redefined our business processes and reallocated resources to peak times to reduce the quality assurance time for audits.

Some enhancements were also made to in-house systems that allowed for increased efficiencies in the audit quality assurance processes.

These changes helped us achieve a new record in site verifications — more than 350 — and audit turn-around times saw a 25.7% reduction, going from an average of 35.5 days in 2016 to 26.37 days in 2017.

22 town halls held across the province

One of the most valuable tools always is facetime and going out into forestry communities to meet with SAFE companies. Over a period of about eight weeks, SAFE Co team members got to host town halls for SAFE Certified Companies for two-way dialogue on issues that matter to our stakeholders.

In addition, WorkSafeBC provided SAFE Companies with 200 Recover at Work toolkits that were distributed at the town halls and during Safety Advisor Verification Audit activities. While prevention is always the number one focus of our activities, when workers are injured, ensuring timely,

appropriate treatment and a robust recover at work program ensures the best outcomes for all — the worker, their colleagues, the organization and the industry.

35 companies converted to SAFE in 2017

A total of 35 companies used a pre-approved conversion process to achieve SAFE Certification in 2017, with the majority of companies (33) coming from the BC Construction Safety Alliance (BCCSA). Of these companies, 25 were small employers and eight were large employers. Two large employers converted to SAFE from Energy Safety Canada (ESC) (formerly Enform).

The conversion process is available to any company with WorkSafeBC Certificate of Recognition (COR) Certification already in place through BCCSA, ESC or SafetyDriven. These companies may obtain SAFE Certification as long as the company does not:

- Have a forestry aligned WorkSafeBC classification or
- Want a forestry COR certification in addition to their construction, oil and gas or trucking COR certification.

Conversion involves a supervisory person taking an online Forestry Safety Overview course and the employer completing a SAFE Conversion submission that includes a quality assurance letter from BCCSA, ESC or SafetyDriven. For large employers, the COR auditor needs to complete two to eight additional BASE questions in conjunction with the COR audit.

The COR auditor will also need additional training for the BASE questions unless they are already a BC Forest Safety Council certified BASE auditor. Large employer auditor training is available online.

SAFE Certifications Achieved

	2017	2016	2015	2014
Individual Owner Operators (IOOs:1-2 persons)	685	643	660	662
Small Companies (ISEBASE & SEBASE:2-19 workers)	1920	1799	1746	1701
Large Companies (BASE: 20 or more workers)	356	319	295	275
Total	2961	2761	2701	2638

The intent of the conversion program is to help ensure a level playing field for bidding on forestry contracts in BC and support safe outcomes for all industry participants.

Online OHS courses saving you time and money, on demand

Based on feedback SAFE Companies started offering Small Employer Occupational Health & Safety (OHS) Courses online at the end of 2017.

One of the requirements of becoming SAFE certified for employers with 2-19 employees is to have a permanent employee who is knowledgeable in their work activities take the Small Employer OHS Course. The course is designed to help participants develop and maintain an effective Occupational Health & Safety Program. Until recently, however, this course was only offered as a 2-day classroom session at different locations and times around the province. Small companies told us that this was very challenging for them when they operated in remote locations and didn't have the ability to leave their operations.

By accessing the BCFSC's Forestry Learning Centre, learners have the flexibility and convenience of 24/7 access to the course. They do not have to take time away from work or incur travel costs when courses are not offered at a venue close to them. Additional benefits of the online training include self-paced learning, where one can log on and pick up where one left off at a time and place most convenient to the learner.

Because of the reduced costs in administering and delivering the course, the online course is less than a third of the cost of classroom costs (\$90+GST versus \$300+GST). This savings doesn't include the other associated student costs for travel,

hotel, meals, etc. to attend in person.

Learners who choose the online option will be required to go through a discussion (approximately 30 minutes) with a safety advisor over the phone after the course. This gives our safety advisors an opportunity to ensure that the required learnings have taken place. This also helps to reinforce some key topics and guide the learner to the next steps in completing and submitting their SAFE Companies audit.

Manufacturing Advisory Group (MAG) builds on dust mitigation success

Building on dust management and mitigation rates of up to 98% in sawmills, MAG focused on three elements in 2017: development work on a new online member reporting and analysis tool for incidents and near miss reporting and analysis. Work also started on a unique MAG SAFE Audit tool to include technical audit modules focusing on high risk areas.

Work was completed in 2017 on increased awareness for industrial first aiders to support improved onsite first aid delivery. Posters and materials for improved minor wound care were developed: <http://www.bcforestsafes.org/node/3004>.

Work will continue in 2018 on both the audit tool as well as on several specific safety enhancements important to sawmill operations.



Your Firstaider is here to help!

Treat on-site:

Burns - Lacerations - Eye Flushing
Abrasions - Splinters - Incisions
Punctures - Ulcerations
Sprains - Strains

You are in GOOD HANDS
MAG
Manufacturing Advisory Group

You are in GOOD HANDS

Say 'Yes!'

Your firstaider is qualified to treat you—
RIGHT HERE, RIGHT NOW!

You are in GOOD HANDS
MAG
Manufacturing Advisory Group

Have a SPEEDY RECOVERY...

Don't forget!

BEFORE YOU LEAVE:

Receive your detailed follow-up sheet;
Come back tomorrow for a check-up

You are in GOOD HANDS
MAG
Manufacturing Advisory Group

2017 focus on development of new faller learning resources

There were a number of significant achievements during 2017 that all support industry's goal of securing continuous improvement in faller safety.

Preparing for the next generation of fallers

Regardless of the numerous achievements in steep slope harvesting and putting men in machines for safety, the recognized reality for BC is that fallers will continue to play a key role in the forest harvesting industry.

One of the goals after the initial new faller training was initially created more than 10 years ago, was to secure meaningful improvements in the manuals, the content and the training. In the years since, there were some incremental changes made but any trainer will tell you while the formalized training was a step change on the safety journey, a lot more needed to be done to update, revise and better translate the real-world realities of falling into curriculum training content. And, it was recognized that the trainers themselves, purely through their professionalism and knowledge, made the training content work by adding wholesale additions of their own and better organizing the content within the manuals.

Following the Deloitte Report it was further emphasized that change was important to improve the learning resources.

To that end, with industry's commitment, funding was made available to take on the significant task of redeveloping the content of the resources to better meet current and future needs, including adding online training options and the first draft of the new faller learning resources were successfully completed thanks in large part to the hard work of a number of industry subject matter experts who worked tirelessly with six technical writers to develop and refine content modules that accurately reflect the skills and knowledge a faller needs to

perform, stay safe and meet the BC Falling Standard.

Early in 2018, WorkSafeBC approved the materials to pilot. This pilot is scheduled to occur in two sessions during the course of the year. At the same time members of the Falling Technical Advisory Committee (FTAC), who were not involved in the development of the new resources, will also review the materials.

All feedback will be considered and shape the final drafts that after feedback from the trainers, trainees, assessors and observers will be incorporated into revised materials. These revised materials will then go to WorkSafeBC for final approval in late 2018 for roll-out as scheduled in 2019.

Certified Faller Supervisor (CFS) changes

Following feedback received in 2017, and at the direction of FTAC, the CFS application form was revised and tested with employers. It is shorter and streamlined and came into effect on January 1, 2018. (See: http://www.bcforestsafesafe.org/files/enol_xCertifiedFallingSupervisorApplication.pdf)

In addition, a new CFS quality assurance process was developed and will be piloted in 2018, where all newly certified fallers will receive quality assurance visits in their first year after certification as supervisors and then on an adhoc basis — 10% random sample each year and at the request of employers.

Phase congestion

Notwithstanding the work that has been done by industry in the past, phase congestion has continued to be raised by fallers (in surveys and site visits) as an area of concern for some. The question therefore needed to be answered: What is the actual status of phase con-

gestion in the BC forest industry? And, what more, if anything needs to be done?

To this end, the BC Forest Safety Ombudsman, Roger Harris, was commissioned by the BCFSC in late 2017 to independently review and report back to the Coast Harvesting Advisory Group (CHAG) and the rest of industry. His final report was presented to CHAG and subsequently released to all in industry in April 2018. CHAG will be working with FTAC and others to consider actions that will better equip industry to effectively manage congested worksites to ensure optimal operational and safety performance. Significant work is scheduled to occur in 2018 in this regard.

Qualified Assistance materials

FTAC identified that there was a need to better inform industry on what qualified assistance is — the regulatory requirements and the obligation for all employers to provide qualified assistance for all fallers.

2018 focus

Efforts will continue to focus on supporting fallers through site visits and facilitating awareness about emerging issues. In addition, a priority in 2018 will be to successfully pilot and secure WorkSafeBC's final approval to roll-out the new faller training learning resources in 2019. Additional effort will be put on finding ways industry can better support trainees in their 31-180 days.



Key falling department numbers for 2017

Faller Certifications

23 new faller trainees **29**
6 challenges

Falling Supervisor Certifications

11

Faller visits

18

1

Quality Assurance visits for Certified Falling Supervisors

8

Certified Falling Supervisor visits

21

Trainer Quality Assurance visits

15 Qualified Supervisor Trainers **25**
10 Qualified Faller Trainers



All fallers MUST have qualified assistance



Qualified Assistance for fallers

SUPERVISOR CHECKLIST:

- Does the supervisor is qualified to supervise fallers?
- Is there a plan in place detailing the onsite qualified assistance process?
- Are there any fallers who have received work in the past and therefore are the holder of an off-site qualified assistance card?
- Have fallers access to qualified assistance in the case of a falling difficulty, faller or backer not qualified to assist or in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?
- Have fallers been trained in the use of qualified assistance in the case of an emergency or incident – (2 minutes to reach first aid/aiding)?

FALLER CHECKLIST:

- Assume the role and definition of "qualified assistance"
- Assume that qualified assistance will be in place for all fallers
- Assume that all fallers will have access to qualified assistance in the case of an emergency or incident
- Assume that all fallers will have access to qualified assistance in the case of an emergency or incident
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QA

Check through the quality assurance process to ensure that all fallers have access to qualified assistance in the case of an emergency or incident.

QUALIFIED ASSISTANCE RESPONSIBILITY:

The supervisor, employer/contractor, licensee or land owner must ensure that every faller has access to person or people capable of effectively helping, assisting or assisting them.

A falling difficulty - no urgent action required e.g. a faller is unsure about how best to handle a hazard tree.
The faller has the opportunity to create a no-work zone until qualified assistance is available.

An emergency - urgent action required e.g. a faller is pinned under a log. Qualified assistance could mean machine assist if appropriate or someone who has the skills and PPE to immediately assist and back him out.

An injury - must have basic first aid coverage readily available to all fallers within a surface travel time (walking) of not more than 10 minutes. OHS Regulation, section 3.13(2).

Bottomline: The supervisor, employer/contractor, licensee or land owner must be able to prove that they have provided the necessary, qualified assistance to comply with the regulation. Still not sure? Call a falling safety advisor at the BC Forest Safety Council at 1.877.743.1000 or call a safety officer at 1.800.622.7233.

For more qualified assistance resources - See www.bcforestsafe.org/qa

Qualified Assistance materials include a brochure, tailgate summary and a poster as well as online materials at: <http://www.bcforestsafe.org/qa>



Right: Scott Rushton, who was named lead falling safety advisory early in 2018, wears a sample of the Falling Supervisor shirt which was rolled out in 2017 to replace the old red shirts which did not meet regulation for all forestry settings.

Right: One of the many sessions where industry subject matter experts worked on curriculum content for the new faller training learning resources that will be piloted in 2018.



Right: One of the new faller training courses that was run through the Okanagan College, June 13 to July 18, 2017, in Revelstoke.

After the 25% reduction in high profile log hauling roll-overs provincially on 2016 over 2015, 2017 held firm at 2016 levels.

Activities will continue to focus on the reduction of fatalities and serious injuries in log hauling.

Data Acquisition and Analysis

To this end, a safety goal is to have a clear and ongoing understanding of the causes and conditions that are contributing to fatalities and serious injuries in the forestry transportation sector. Work in 2017 included the further defining of requirements, access, availability, and priorities related to safety data, expansion of MOUs with data sharing partners, the acquisition of fatality and other incident investigation reports, related data and other information (from WorkSafeBC, BC Coroners Service, Insurance Corporation of BC, licensees etc.) and related analysis.

Log Truck Driver Training and Professional Endorsement

Based on the completion of the Log Truck Driver Training and Professional Log Hauler Endorsement Programs next steps will see the further expansion of these programs with industry partners.

Vehicle Identification Numbers (VIN)

2017 saw the continued development of the VIN project with testing of a fuller integrated online version having taken place for broad roll-out to industry in

2018.

Industry Working Groups

The BCFSC's transportation and northern safety office continued to provide support to several industry-led safety working groups.

Trucking and Harvesting Advisory Group (TAG) tackles fatigue

Phase two of a log truck driver fatigue study was initiated and resulting in the development of best practices to create awareness about fatigue, its impact and how best to manage. Work will continue in this area in 2018.

Log Truck Technical Advisory Committee (LTTAC)

LTTAC continued its work on the development of an industry-led log truck driver training and professional endorsement that works for owners, contractors and drivers, with pilots being run both in the interior and on the coast. The intent is to provide a suitable and effective training standard for new log haulers beyond class 1 licence and air brake training which addresses key competency requirements and promotes safety. In addition, professional endorsement that enables practical and efficient means to assess competency and improve performance for existing log haulers was worked on. LTTAC also completed the development of a Provincial Road Maintenance Guideline focused on improving log hauling safety, which started being piloted in 2017 and will continue in 2018.

Woodlot Licence and Community Forest Agreement Safety Committee (WLCFASC)

The WLCFASC continued its work in 2017 with the support of the BC Community Forest Association and Federation of BC Woodlot Association with the goal of improving safety within community forests and woodlot operations. One of the key elements in 2017 was completed materials to support increased awareness with regards to due diligence and safety responsibilities pertaining to woodlot and community forest licensees.

Bulk Haulers Injury Elimination Taskforce (BHIET)

The BHIET focused on identifying safety issues within the sector and exploring solutions with the regulator, WorkSafeBC, to help support a reduction in the injury rate.

Marine Forest Safety Advisory Group (MFSAG)

The MFSAG was established in order to address safety in the marine environment. The focus for the group has been key safety communications and the development of crew boat and tug boat operator competencies.

Construction Initiated Slides Working Group (CISWG)

Ongoing CISWG work includes slides data collection and analysis; training and awareness for road crews; training and awareness for professionals. In early 2018,

a series of professional training seminars will be uploaded as webinars (two hours long) to the BCFSC's YouTube channel.



Left: Log hauling participants listen to a fatigue awareness presentation in Vernon in 2017.

Wood Pellet of Canada Safety Committee (WPACSC)

WPACSC made significant progress on initiatives identified in its 2017 work plan. Key areas of focus were syngas, combustible dust management, incident reporting, machinery guarding, process safety management and confined space management. 2017 will see an expansion of these items and the development of new initiatives as identified in the current WPAC SC work plan.

Air Carriers Safety Working Group (ACSWG)

The ACSWG is focused on improving safety performance for both the float plane operators and the forest industry passengers they transport. They have been working on the development of safety protocols/best practices for industry and an audit program to support float plane safety in BC.

Transportation and Northern Safety will continue to work on industry initiatives undertaken in 2017 during 2018 and seek to support industry in further improving safety performance in BC.

The second phase of the log truck driver fatigue has been initiated. It is expected that this phase will support findings in 2016 and provide the basis for developing future fatigue management strategies and actions for industry. Fatigue training has also been initiated within TAG operations specific to log truck drivers.



Right: Participants at a log hauling safety seminar coordinated by the BCFS in Prince George in May 2017, talking about 9-axles.

Statement of Financial Position

For the year ended December 31, 2017

The BC Forest Safety Council (BCFSC) is in a strong financial position with cash and equivalents sitting at \$1.45 million net of restricted amounts compared to \$1.53 million in 2016. The BCFSC had a clean audit with no follow ups required. The BCFSC is financially sound.

	December 31, 2017	December 31, 2016
Assets		
Current		
Cash	\$ 1,448,691	\$ 1,530,877
Accounts Receivable	173,311	82,817
GST receivable	23,633	15,412
Prepaid Expenses	260,089	123,958
Deposits	6,949	6,949
Externally restricted cash	880,207	372,549
	2,792,880	2,132,562
Capital Assets	75,574	227,691
Internally restricted cash	603,560	407,290
	3,472,014	2,767,543
Liabilities		
Current		
Accounts payable and accruals	296,705	208,572
WorkSafeBC — COR	120,602	215,770
Deferred revenue	715,734	660,557
Deferred contributions – other projects	880,207	372,549
Deferred contributions related to capital assets	-	56,000
	2,013,248	1,513,448
Net Assets		
Unrestricted	779,632	675,114
Invested in Capital Assets	75,574	171,691
Internally restricted	603,560	407,290
	1,458,766	1,254,095
	3,472,014	2,767,543

Statement of Operations

For the year ended December 31, 2017

	December 31, 2017	December 31, 2016
Revenues		
WorkSafeBC	\$ 5,476,353	\$ 5,462,296
Program Fees	689,983	802,247
Other government grants	393,192	71,328
Sponsorship and other	81,010	45,537
Interest	32,158	23,863
Amortization of deferred contributions related to capital assets	56,000	16,000
	6,728,696	6,421,271
Expenses		
Advertising	14,811	26,452
Amortization	74,987	74,196
Bank charges and interest	20,204	19,393
Books and supplies	76,170	68,895
Communication	80,229	102,828
Computer	98,519	45,329
Consultants	72,417	166,423
Contractors	1,012,909	935,988
Conventions and conferences	116,060	93,971
Directors and committee meetings	140,875	168,764
Dues and memberships	23,013	15,205
Employee benefits	533,365	512,692
Facilities and catering	86,480	86,540
Insurance	21,739	21,483
Legal	4,424	9,766
Office	114,119	135,965
Professional fees	18,916	13,609
Project development	278,495	361,305
Rent	110,965	112,104
Repairs and maintenance	36,160	36,726
Salaries and wages	2,871,818	2,663,084
Telephone	41,226	56,105
Training	-	431
Travel	97,088	484,007
Vehicle	44,274	44,556
	6,389,263	6,255,817
Excess of revenues over expenses	339,433	165,454
Loss on disposal of capital assets	(134,762)	-
Excess of revenues over expenses	204,671	165,454

Air Carrier Safety Working Group

Bruce McDonald, Inland Air
 Eric Scott, Harbour Air
 Jim Hartwell, Float Plane Operator Association
 Nick Hawes, LD Air
 Peter Grimm, Vancity Sea Planes
 Vince Crooks, Sea Air

BC Safe Forestry Program — Strategic Advisory Committee (SAC)

Aaron Frost, Strategic Natural Resource Consultants
 Alan Sidorov, Sidorov Advanced Driver Training
 Carlo Galvani, Akehurst and Galvani Reforestation
 Chris Akehurst, Akehurst and Galvani Reforestation
 Chris Runnals, BC Timber Sales
 Crawford Young, Spectrum Resource Group
 Dave Cornwell, Ministry of Forests, Lands, Natural Resource Operations and Rural Development
 Dr. Jordan Tesluk, Independent Researcher
 Jason Krueger, Summit Reforestation Ltd.
 Jo Graber, Jokat Safety
 John Betts, Western Forestry Contractors' Association
 Neil Spendiff, Canfor
 Paul Schuetz, Industrial Forestry Service Ltd.
 Robin McCullough, Brinkman Reforestation
 Russell Claus, Windfirm Resources Inc.
 Ryan Zapisocki, Windfirm Resources Inc.
 Sylvia Fenwick-Wilson, Zanzibar Holdings Ltd.

Bulk Haulers Injury Elimination Taskforce (BHIET)

Brad Markin, Sutco
 David Stearns, Excel Transportation
 Jacqueline Morrison, WorkSafeBC
 James Gelowitz, Canfor
 Matt Cook, Arrow Transportation Systems Inc.
 Mike Grimm, Lomak
 Paul Manwaring, M4 Enterprises
 Russell Klassen, Valley Carriers
 Stuart Foster, DCT Chambers Trucking
 Tim Bumby, D. Jones Truckin

Coast Harvesting Advisory Committee (CHAG) Working Team

Craig Fredrickson, Mount Sicker Lumber Company
 Don Holmes, TimberWest
 John Bulcock, Western Forest Products
 Mark Leitao, Island Timberlands
 Noel Poulin, Ministry of Forests, Lands, Natural Resource Operations and Rural Development
 Ralph Friedrich, Interfor
 Ron Corbeil, United Steelworkers Wood Council
 Steve Venus, Blue Thunder Contracting

CHAG Steering Team

Bob Matters, United Steelworkers Wood Council
 Brian Baarda, TimberWest
 Darshan Sihota, Island Timberlands
 David Elstone, Truck Loggers Association
 Don Demens, Western Forest Products
 Ray Luchkow, BC Timber Sales

Construction Initiated Slides Working Group (CISWG)

Bill Schulte, Interfor
 Clayton Gillies, FPInnovations
 Del Ferguson, Aztec Geoscience
 Gino Fournier, Ministry of Forests, Lands, Natural Resource Operations and Rural Development
 Mark Ponting, Ponting Logging
 Mike McCulley, BC Timber Sales
 Tom Jackson, Ministry of Forests, Lands, Natural Resource Operations and Rural Development

Falling Technical Advisory Committee (FTAC)

Aaron Steen, Licensee Coast Representative
 Bill Boyes, Large Logging Contractor
 Bill McKay, Large Falling Contractor
 Chris Davis, Energy Safety Canada Representative
 Chris Spronken, BC Wildfire Service Representative
 Clay Govett, Licensee Interior Representative
 Creole Dufour, Small Contractor (Faller) Interior Faller
 Dazy Weymer, Western Fallers Association Faller
 Don Cleaver, Licensee Coast Representative
 Doug Harrison, Interior Contractor Representative
 Dusko Spasenic, Licensee Coast Representative
 Francois Sauve, Western Forestry Contractors Association (Silviculture) Representative
 Gary Bauer, Licensee Coast Representative
 Glenn Erickson, Wester Fallers Association Faller
 Jack Miller, Union Rep or Union Faller (with falling background)
 Jordan Nicolussi, Large Falling Contractor
 Mark Turnbull, Certified Utility Arborist Representative
 Neil Campbell, QS/T Interior Faller
 Norm Kempe, BC Timber Sales
 Richard Butler, QS/T Coast Faller
 Steve Kerrone, Large Logging Contractor
 Tom Jackson, Ministry of Forests, Lands, Natural Resource Operations and Rural Development
 Wayne Lintott, Interior Logging Association

Log Truck Technical Advisory Committee (LTTAC)

Chris Schaap, Casco Holdings Ltd.
Dave Barden, Barden Contracting Ltd.
Delbert Ritchey, San Jose Logging
Greg Calibaba, RCMP
Jan Lansing, Commercial Vehicle Inspections and Standards
John Wiebe, John D Contracting Ltd.
Peter Bueckert, J. Bueckert Logging Ltd.
Rick Bitten, Western Forest Products
Ron Judd, WorkSafeBC
Seamus Parker, FPIInnovations
Vern Woods, Vern's Ventures
Wes Dyck, John Dyck Trucking

Manufacturing Advisory Group (MAG)

Art Bilodeau, Louisiana Pacific
Daniel Ruzic and Rick Robertson, Interfor
Darren Beattie, Conifex
Darreb Narutt, Pacific Bioenergy
David Murray, Gorman Bros.
Jeff Larsen and Carrie Harilstad, Weyerhaeuser
John Bulcock, Western Forest Products
Kerry Douglas, West Fraser Mills
Matt Franks, Canfor
Myrin Toews, Norbord & Ainsworth

Randi Zurowski, Carrier Lumber
Ruben Gaytan, Ian Gray and Joe Angyus, Hampton Affiliates
Russ Brackenbury and S. Morabito, Downie Timber
Ryan Johnson and Scott Wynn, Tolko
Steven Mueller, Pinnacle Renewable Energy
Tony Mogus, Dunkley Lumber
Tristan Anderson, Coastland Wood
Trudy Langthorne and Bruce McLean, Sinclar Group Forest Products Ltd.

MAG Steering Team

Andrew Horahan, Interfor
Bob Matters, United Steelworkers Wood Council
Brad Thorlakson, Tolko Industries Ltd.
Don Demens, Western Forest Products Inc.
Don Kayne, Canfor
Greg Stewart, Sinclar Group Forest Products Ltd.
Ken Shields, Conifex
Nick Arkle, Gorman Bros. Lumber Ltd.
Rob Novak, Dunkley Lumber Ltd.
Steve Zika, Hampton Lumber
Ted Seraphim, West Fraser

Marine Forest Safety Advisory Group (MFSAG)

Aaron Frost, Strategic Natural Resource Consultants
Aloaki Tewari, Transport Canada
Don Willson, Silver King Ventures
Glenn Budden, Transportation Safety Board
Mark Lunny, WorkSafeBC
Robin Modesto, Interfor
Timo Scheiber, Western Forestry Contractors' Association
Tom Jackson, Ministry of Forests, Lands, Natural Resource Operations and Rural Development; and BC Timber Sales

SAFE Companies Advisory Committee (SCAC)

Ann Marie Baron, Lemare Group of Companies
Deb McPhee, Larry's Heavy Hauling (1990) Ltd.
Dennis Thideman, Edynamics
Derek Nelson, Western Forest Products
Dr. Jordan Tesluk, Independent Researcher
J.E. (Ward) Stamer, Stamer Energy Resources
Kevin Birch, B&B Tree Topping
Kim Edmondson, M. Edmondson Contracting
Margo Huppee, District of Mission Forestry Dept.
Norm Druck, Weyerhaeuser
Tom Jackson, Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Valerie Dettwiler, Griffon Safety Solutions Ltd.
Wendy Sherman, Gudeit Bros. Contracting Ltd.

Trucking and Harvesting Advisory Group (TAG)

Task Team

Dave Kent, Weyerhaeuser
Erik Kok, Interfor
Gwenn Heatherington, BC Timber Sales
Jason Stafford, BC Timber Sales
Jeffrey Rensmaag, Conifex
Jerry Mooney, Tolko
Ken Pedersen, Canfor
Marty Hiemstra, LoBar Log Transport
Ron Volansky, R&A Logging
Scott Marleau, West Fraser Mills
Shawn Clarke, Gorman Bros. Lumber Ltd.
Trent Gainer, Dunkley Lumber
Vern Woods, Log Truck Technical Advisory Committee

TAG Steering Team

Barry Gladders, Tolko Industries
Craig Tillander, BC Timber Sales
David Elstone, Truck Loggers Association
Jeffrey Rebsmaag, Conifex
Kerry Douglas, West Fraser Mills
Larry Price, Interfor
Nick Arkle, Gorman Bros Lumber Ltd.
Peter Baird, Canfor
Scott Marleay, West Fraser Mills
Wayne Lintott, Interior Logging Association

Woodlot License and Community Forest Agreement Safety Committee (WLCFASC)

Bill Golding, Wetzin'kwa Community Forest Corp.
Dave Gill, West Bank First Nation Community Forest
Dave Lasser, Sunshine Coast Community Forest
Gary Hanson, Woodlot Licensee/Smithers
Mark Churchill, Woodlot Licensee/Vanderhoof
Rick Walters, Woodlot Owner/Williams Lake

Wood Pellet Association of Canada Safety Committee (WPACSC)

Bill Carson, Rentech
Bill Munro, Rentech
Christine Paradis, Foothills Forest Products
Corey Gardiner, AON Reed Stenhouse
Darrell Robinson, Shaw Resources
Gordon Murray, Wood Pellet Association of Canada (Secretary)
James Snow, Nechako / Premium Pellet Ltd.
John Arsenault, Quebec Wood Export Bureau
John Stirling, Princeton Standard Pellet Corporation
Kerry Douglas, West Fraser
Mathew Franks, Canfor
Pierre-Olivier Morency, Rentech
Scott Bax, Pinnacle Renewable Energy Group (Chair)
Sharel Grimm, Pacific Bioenergy
Sidney David, Canfor
Staffan Melin, Wood Pellet Association of Canada
Travis Peterson, Canfor



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