SAFEBUILD ALLIANCE

ZERO INCIDENTS THROUGH COLLABORATION

TRANSPARENCY IN SAFETY SHARING INNOVATIONS

October 28th 2020 Member Meeting



October 28, 2020 Member Meeting

Welcome – Travis Baker

Welcome Executive Director announcement Thank you to our sponsor & presenters

2021 SafeBuild Alliance Board Member Vote

Presentation – Transparency in Safety: Sharing Innovations

Sponsor Presentation – Milwaukee Tools

Wrap-Up



Executive Director Announcement

Karen Blythe is retiring!

Thank you, Karen, for your guidance, vision and commitment to the health and wellbeing of all those in our industry over the years. Enjoy your retirement!





Innovations Member Meeting

Transparency in Safety: Sharing Innovations October 28th, 2020

A collaborative presentation between SafeBuild Alliance OR & WA



2021 Board Election

Three-year term election (renewal) vote:

Todd Coffman, Rosendin

Brett Phillips, BSI

Brad Morton, Cochran



Thank you to our sponsor





Innovations – Contributors

Moderator: Dave Johnson, Hoffman Construction Howard S Wright • Hilti • CPWR American Heart Association • PCI Burns & McDonnell • Milwaukee Tool OEG • TCM • Skanska • Rosendin Work Right NW • Foushee • Hoffman Mortenson • Fred Shearer • Flynn

Disclaimer: The activities and innovations discussed are for reference only. Please do your own due diligence before implementing new technologies, equipment or procedures.



Burns & McDonnell

Creating the Innovative – and Safe - Mindset

Psychological safety is a belief that one will not be punished or humiliated for speaking up with ideas, questions, concerns or mistakes. — Amy Edmondson, Harvard Business School

- The most important factor in creating a high performance – and innovative – workplace
 - Google Aristotle Project

- Best way to show Respect is to genuinely listen – with a willingness to be influenced
- Move beyond physical safety to create a great work experience



Safety Innovation Requires An Inclusive State of Mind

Diversity

- Bringing people with different values and backgrounds to the workplace
- Today's workforce looks much different than the 1980 workforce
- Construction workforce is becoming much more diverse – by necessity
- Technical complexity is increasing exponentially

Inclusion

- Creating a sense of belonging which is distinctly different from "fitting in"
- Feeling free to express who you really are
- Does that sound like large-scale construction to you?

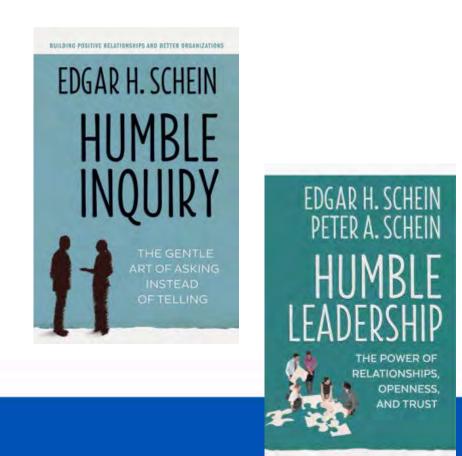
Diversity with a poor degree on Inclusion is counter-productive



Trust Enables Innovation

Trust in the context of a conversation is believing that the other person will

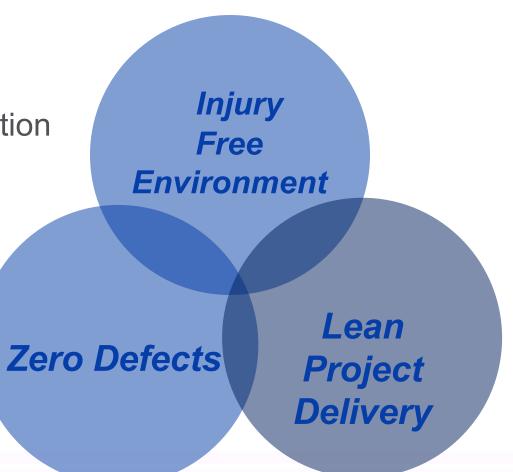
- acknowledge me
- not take advantage of me
- not embarrass or humiliate me
- tell me the truth
- not cheat me
- work on my behalf
- support the goals we have agreed to



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Common Themes of Progressive Management Approaches

- Respect for People
- Continuous Learning & Improvement
- Effective and Transparent Communication
- Focus on Effective Process
- Continuous Learning
- Lousy Outcomes Aren't Inevitable





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CPWR – The Center for Construction Research and Training



Safety Climate-Safety Management Information System:

Confidence to Implement Scale

Linda M Goldenhar, PhD Director Research & Evaluation

Transparency in Safety – Sharing Innovations Oregon & Washington SafeBuild Alliance Member Meetings October 2020



Safety Climate — Safety Management Information System

An interactive web-based system that construction companies, particularly those with fewer resources, can use for continuous safety climate, safety management, and safety outcome improvement.



Safety Climate — Safety Management Information System

- Schedule a company-wide Safety Climate Assessment (S-CAT)
- Generate reports containing assessment results
- Access large resource repository containing evidenceinformed safety climate management resources (guidelines, templates, policies, procedures)
- Create action plans to put selected resources into action
- Access current & completed action plans
- Set reminders for continuous improvement
- And...



Confidence to Implement (CtI) Scale

To better *understand* safety climate issues that safety management strategies could improve, I can... (6 Items)

To *develop* safety management strategies to improve jobsite safety climate, I can... (7 items)

To *implement* safety management strategies to improve jobsite safety climate, I can... (5 Items)

To *evaluate* the effectiveness of safety management strategies, I can... (6 Items)



Confidence to Implement (CtI) Scale

To help ensure the CtI is reliable and valid, we need your **help!**

- Already have 104 stakeholder responses but need more
- Please consider taking **5-7 minutes** out of your busy day



All you have to do is:

- 1. Click or copy and past this URL into your browser -https://wsu.co1.qualtrics.com/jfe/form/SV 1EQ0a5Or2aP53Br
- 2. Read the informed consent.
- 3. Complete the short survey by **November 30th**
- 4. You will not be asked for identifying information and all responses are anonymous.



Thank you very much!

Please send me an email if you have any questions

Lgoldenhar@cpwr.com

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WELCOME TO A

SNEAK PEAK OF THE LATEST

HILTI INNOVATIONS

HILTI UNVEILS WEARABLE EXOSKELETON TO HELP REDUCE STRAIN AND FATIGUE FROM OVERHEAD APPLICATIONS



- Will help commercial contractors, tradesman and management alike tackle health and safety as well as labor shortage challenges.
- Hilti Group partnered with Ottobock, the global leader in prosthetics, orthotics and exoskeletons that help people increase and retain their physical independence.





HUMAN AUGMENTATION WILL BE AVAILABLE IN EARLY 2021





SMART CONCRETE SENSORS IMPROVE DECISION MAKING AND ACCELERATE CONSTRUCTION SCHEDULES



- Possible through better understanding of the concrete curing process.
- Concrete Sensors provides the commercial construction industry with an easy-to-use platform to predict and monitor concrete behavior.
- An integrated platform combines a wireless concrete sensor, a concrete testing lab and mix design database with cloud software and analytics to provide the most accurate prediction of concrete strength in the industry.







THANK YOU!

SEND QUESTIONS TO

SEATTLE/WA: TAMARA.SARG@HILTI.COM PORTLAND/OR: RYAN.WILSON@HILTI.COM





Challenge- Provide crews access to cold drinking water during the warm work days and complying with COVID restrictions.



Intel MOD3 Hydration stations

Challenge- Provide crews access to cold drinking water during the warm work days and complying with COVID restrictions.

Solution-

- 8 individual tool carts were setup and outfitted as "mobile hydration stations".
- Each one of the carts is located at major laydowns throughout site so OEG workers have easy access to them.
- Coolers are stocked in the morning and maintained throughout the day by Material Handlers.
- An Ice Machine was purchased so that ice was readily available to add to coolers. Only select individuals have access to machine and a protocol was created for those accessing the machine
- Each cart has a large cooler capable of holding a case of water up to 2 cases.
- Ice is added to help keep water cool throughout the day.
- Hand sanitizer dispensers are added so workers can clean hands before touching surfaces/ opening cooler
- Pieces of plexiglass were added to the carts so that empty bottles can be disposed of at the spot. Empty bottles are gathered for disposal. (reduces added trash on the project by empty water bottles being left laying around)
- Since initial design, trash bags are fitted to the opening in the plexiglass so that when its time to remove the empties, all the handlers need to is grab the bag, install a new bag and take away the full bag.
- Empty bottles are being recycled and money collected is being used to provide donuts for the crews. Additionally money is now being used to help one of our workers and their family who lost their house in the recent fires.

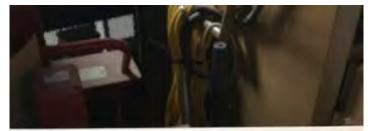








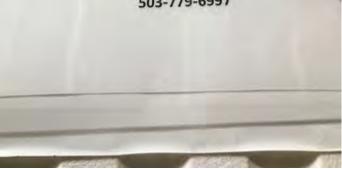




COOLER RULES

- 1. Only Material Handlers allowed to restock ice.
- 2. No work gloves allowed inside cooler.
- 3. Use hand sanitizer before getting water bottle.
- 4. Cooler is for water bottles only!!!
- 5. Do not move cart.
- 6. Put empty bottles below.

Contact Rocky Sloan for assistance 503-779-6997





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Observed PurpleAir

Energy

Southland

Construction

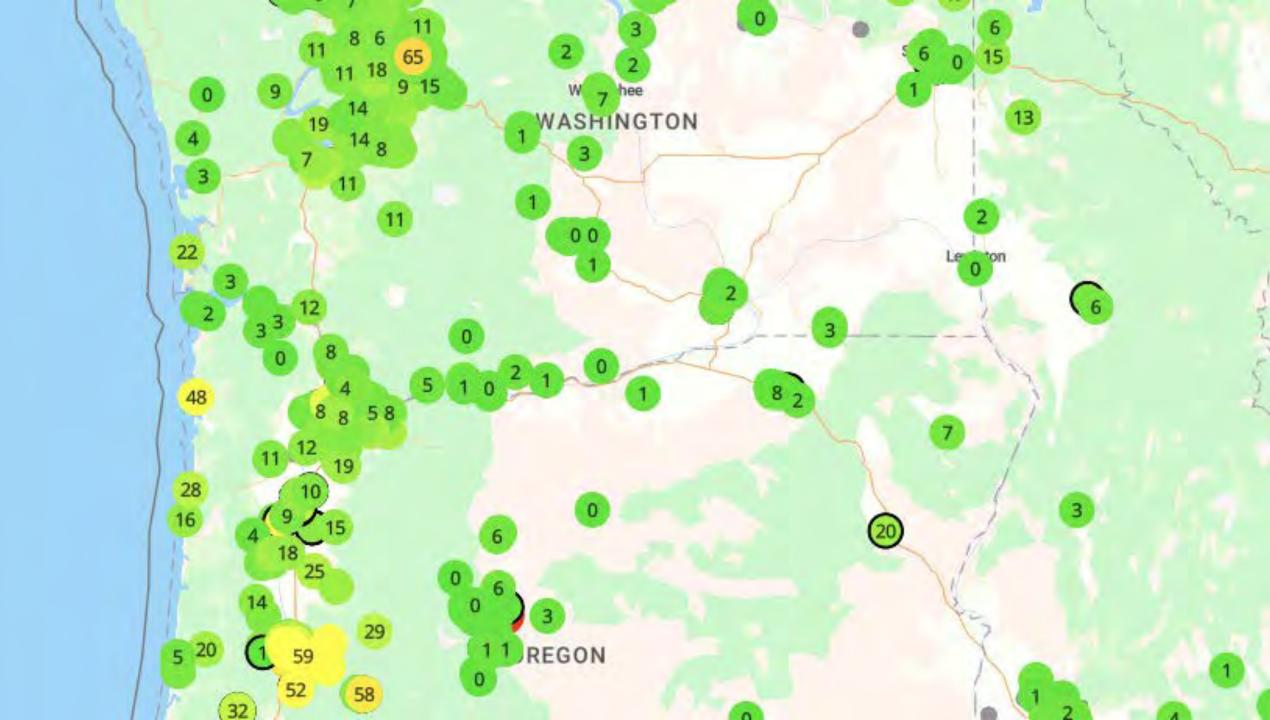
Southland

Engineering

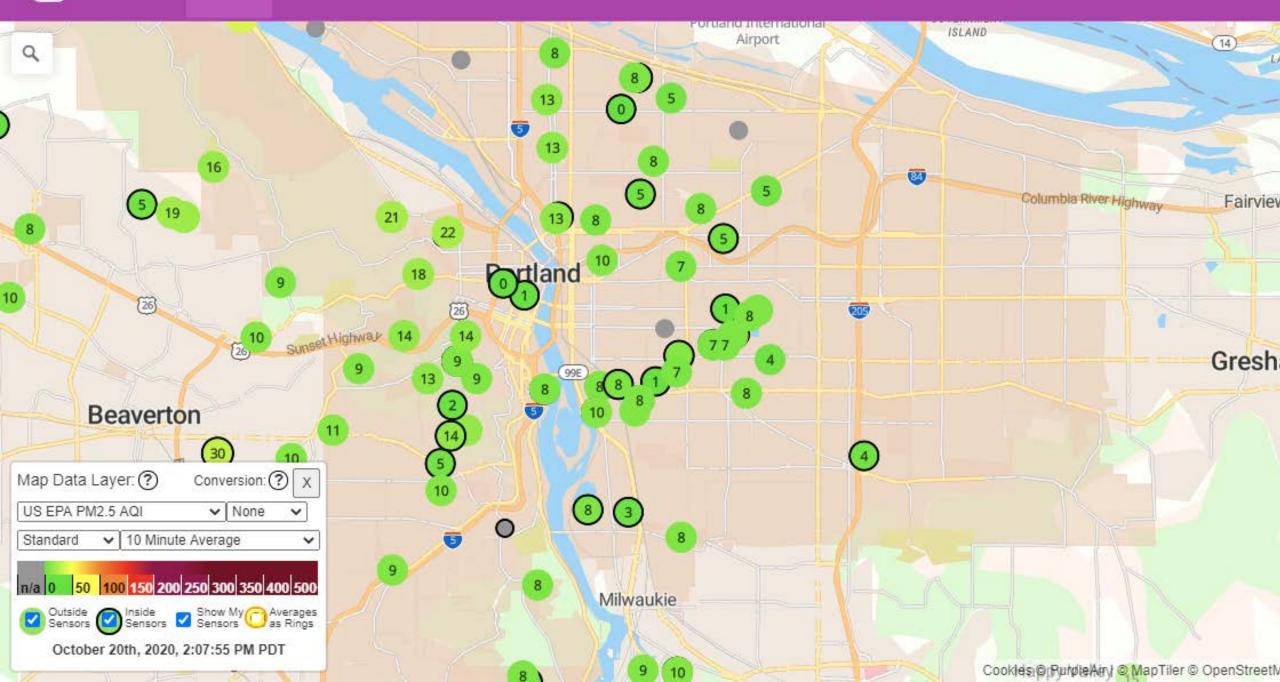
Southland Cenvise.

Innovations-TCM





🔿 PurpleAir 👻 🎯 Map 🛛 😌 Shop 🖌 Install







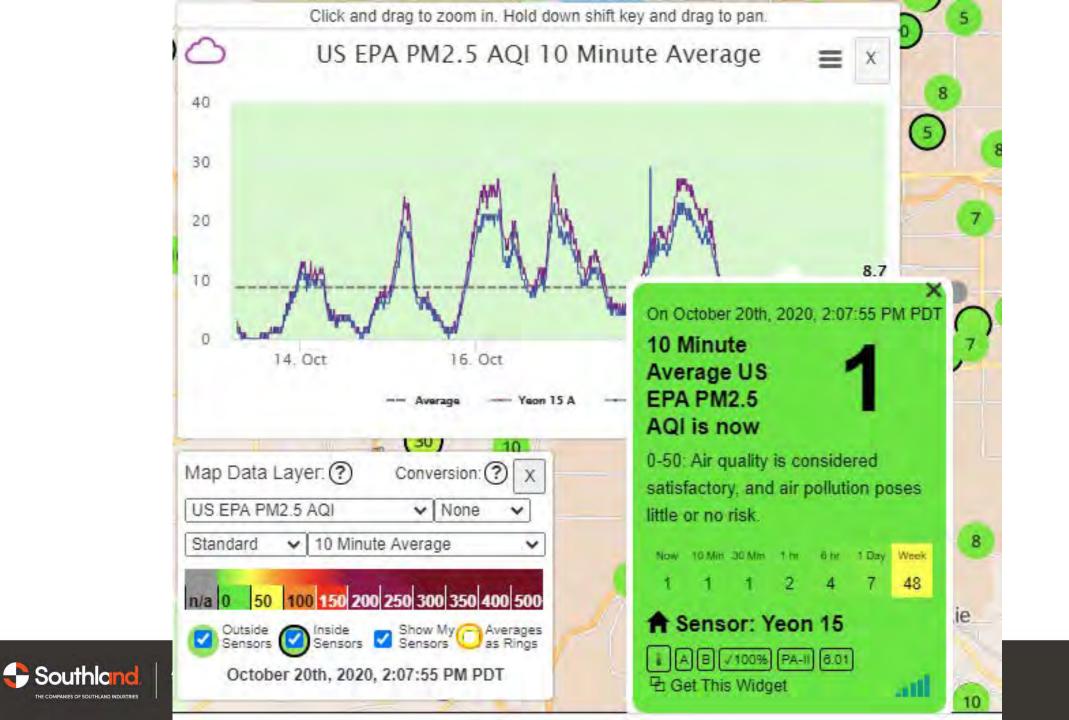
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PurpleAir PA-II \$249.00

PurpleAir PA-II-SD \$279.00

PurpleAir PA-I-Indoor \$199.00









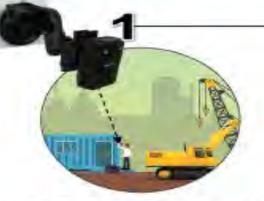
SKANSKA



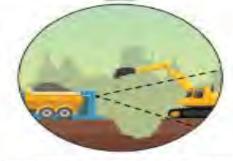
Hybrid Remote Video Auditing (RVA) & Al Services

Construction Site Portable Cameras

Arrowsight



Portable cameras placed on job site at the start of shift



Portable cameras record entire day's activity



Portable cameras placed in docking station overnight to recharge and transfer video to Network Video Recorder



Arrowsight sends Tablet Based Power Bl Daily & Weekly Reports & With Flagged Videos to front line supervisors

Auditing Method

- Al and/or time elapse video searches for <u>ALL</u> live loads and workers on ladders
- Randomized "Smart sampling" of video clips for live loads, fall protection, and energized equipment (PPE also included)



Video audited overnight by Arrowsight team







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www.arrowsight.com

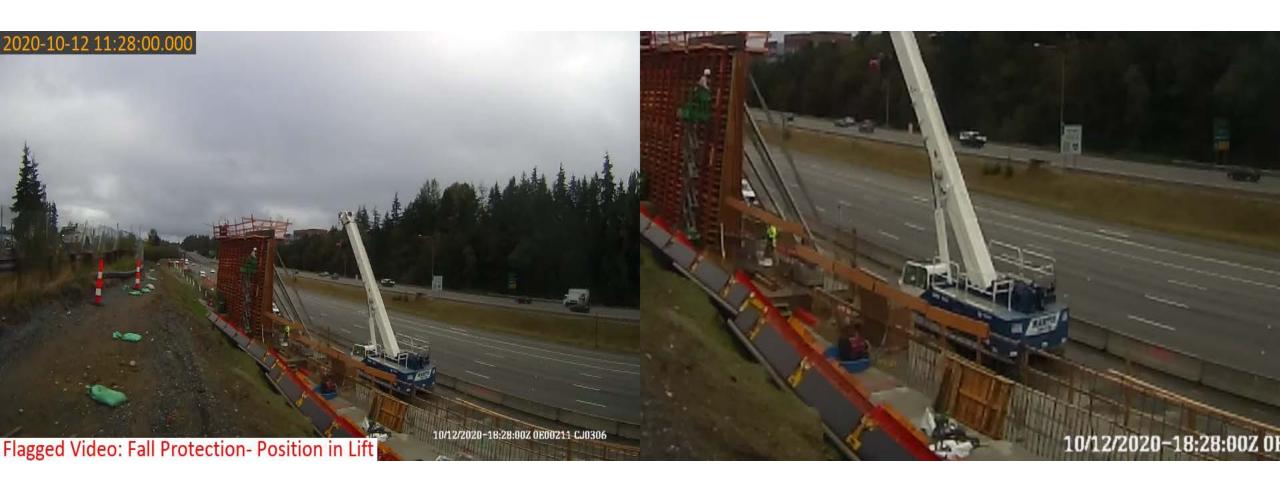


Live Load Handling





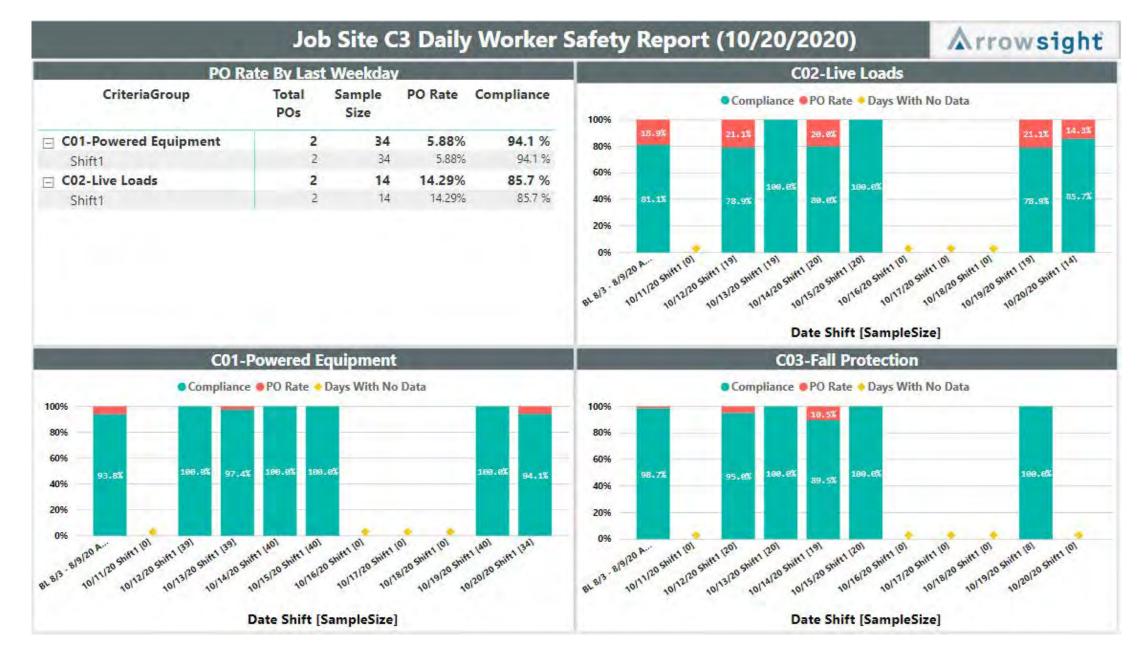
Fall Protection





Positive Observations







Rosendin

POWER Breezer COVID-19 Sanitizer

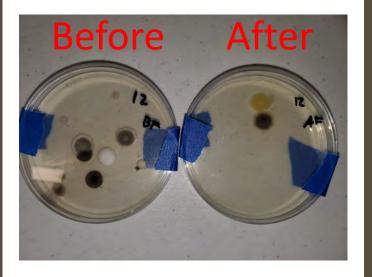
ROSENDIN

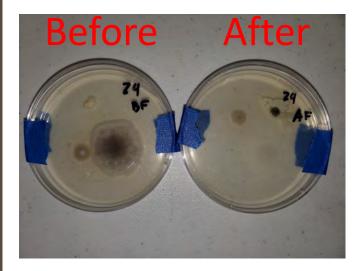
Power Breezer

- Purchased (4) of these for Projects across NW
- Started from an Email from Grainger
- Utilized a couple different approved chemicals to sanitize large areas in our prefab shops as well as 2 projects.
- Using this in a couple other areas as well















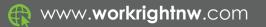
Flynn + Work Right NW

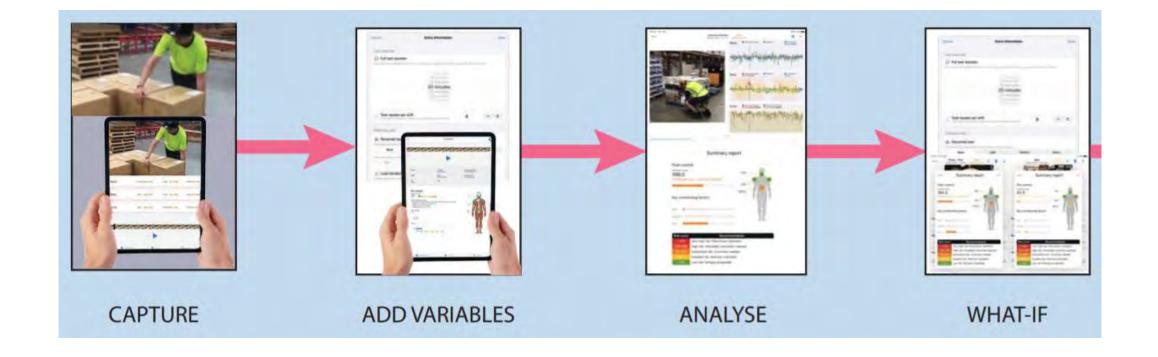


JointAction Solutions























@workrightnw

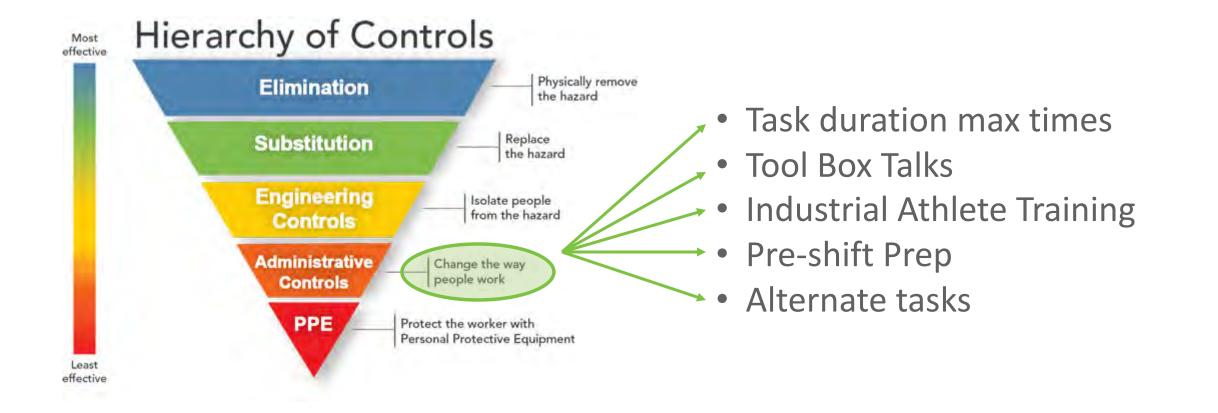




Greater than 400	Very high risk
200 - 400	High risk
70 - 200	Substantial risk
20 - 70	Possible risk
LEss than 20	Low risk







@workrightnw









- 1. Establish a baseline by taking the test 10 times
- 2. Use the AlertMeter[®] at various times throughout the day to measure one's alertness level
- 3. If a worker's alertness level is below baseline, they will be asked to take the test again
 - A second below baseline score will notify a supervisor
 - AlertMeter[®] is not used for disciplinary purposes, only as a way to measure alertness in the workplace and to prevent injuries
- 4. Challenges include:
 - Sharing with Union Local's and receiving understanding and buy-in
 - Identifying the proper audience to take test
 - Keeping track of workers status every day
 - Follow up and evaluating a worker's alertness and implementing appropriate measures if there is a notification

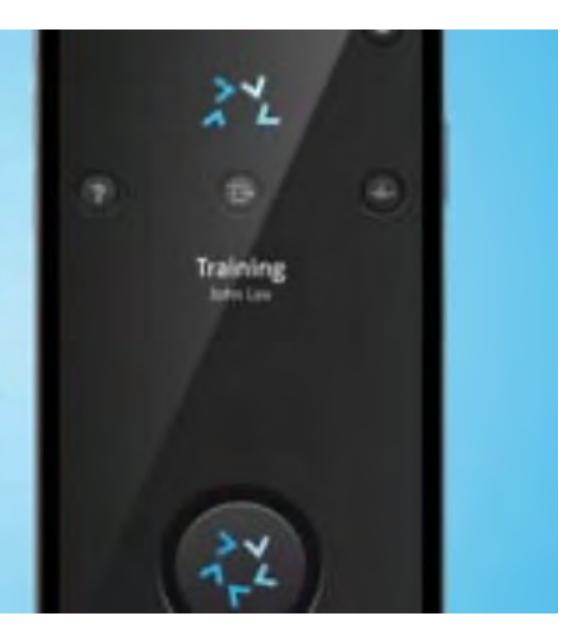






Use the login information you've been provided to sign into the app.

Once you sign in, the app will remain logged in, unless someone else is also using your device.



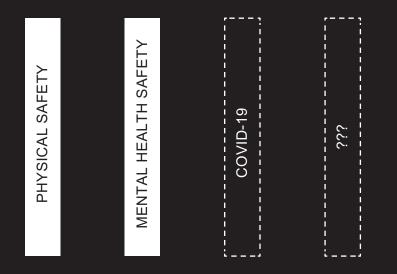
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Hoffman





GUTS SAFETY PROGRAM



GUTS IS THE UMBRELLA OVER PHYSICAL SAFETY, MENTAL HEALTH SAFETY AND FUTURE SAFETY-RELATED INITIATIVES.

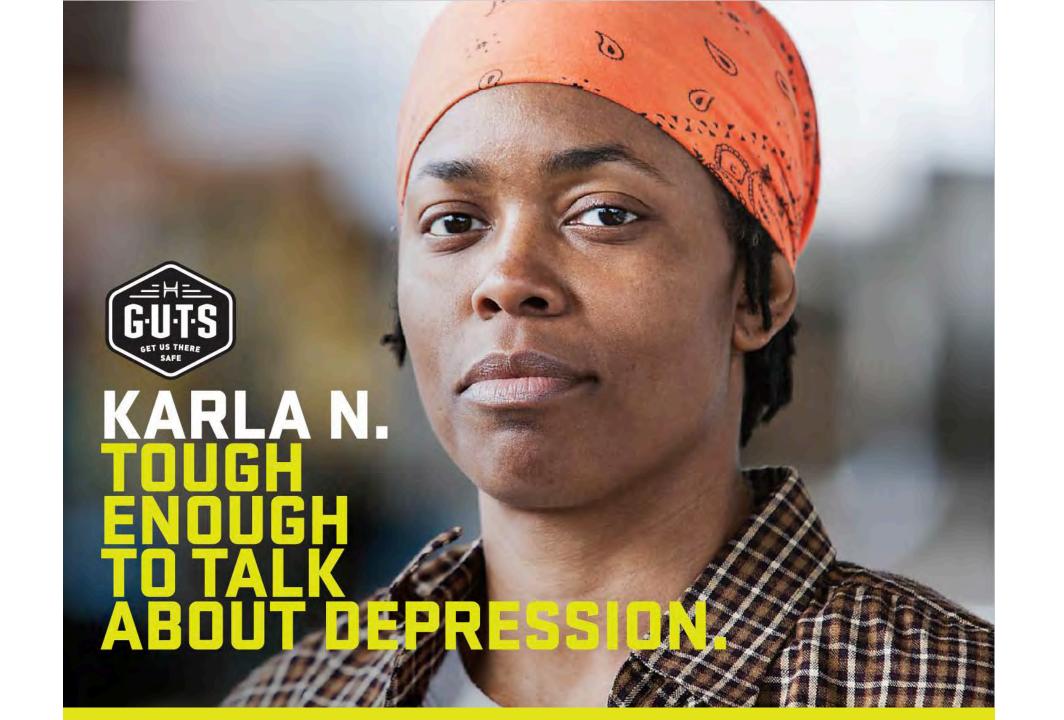
MENTAL HEALTH AWARENESS CAMPAIGN:

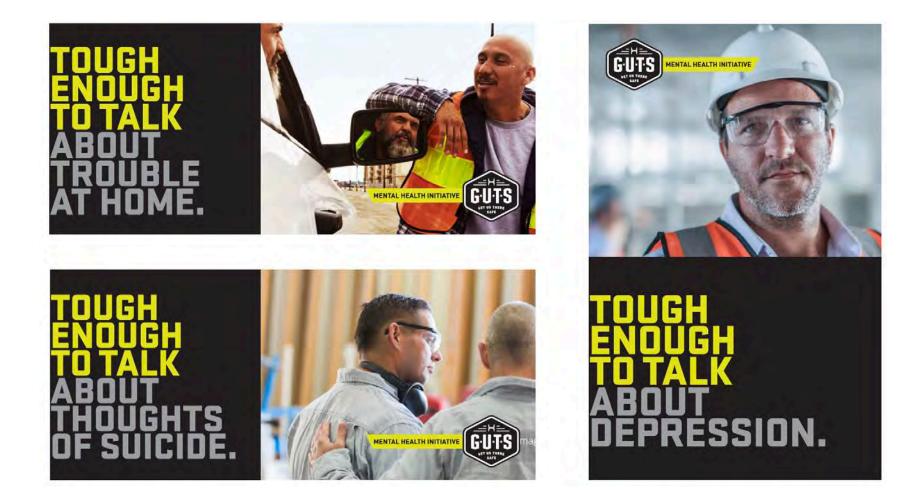
CREATE AWARENESS. START THE CONVERSATION. NORMALIZE. CHANNEL COURAGE. PREVENT INCIDENTS. SAVE LIVES. $\underbrace{\mathsf{GET}}_{\mathsf{GET}} \mathsf{US} \mathsf{THE}_{\mathsf{RE}}$

WE ALL FACE PERSONAL STRUGGLES, **BUT ISSUES INVOLVING OUR MENTAL HEALTH** CAN BE REALLY HARD TO TALK ABOUT. IN OUR INDUSTRY, REACHING OUT CAN BE THE DIFFERENCE BETWEEN LIFE AND DEATH. IT TAKES STRENGTH AND COURAGE TO FACE OUR DEMONS. WE'RE GOING TO HAVE TO GET TOUGH. OPEN UP AND TALK. ACCEPT SOME HELP. IT WON'T BE EASY, BUT AS WE LIKE TO SAY, WE DON'T DO EASY.



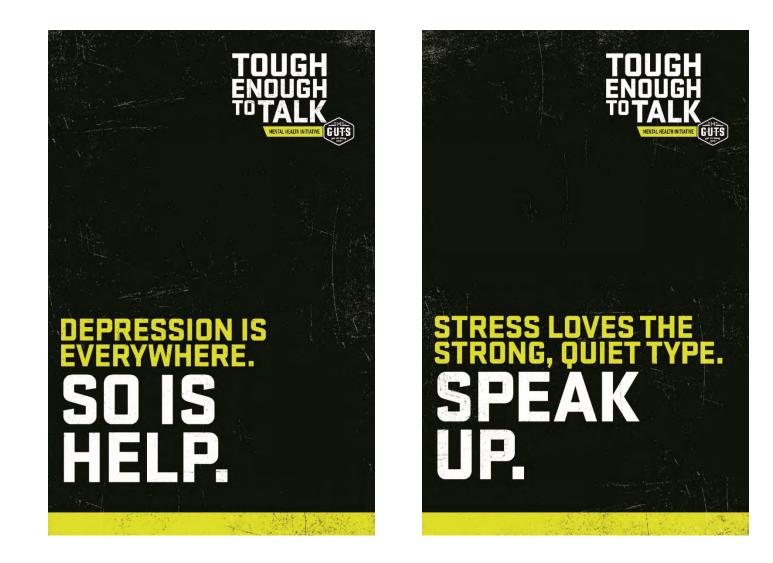








POSTERS



POSTERS

















Available now from the Hoffman Yard: posters, banners, and hard hat stickers #Yard-Orders@hoffmancorp.com



HEADCHECK

IF YOU'RE NOT 100% PRESENT, YOU'RE DANGEROUS.

HEADCHECK

CONSTRUCTION WORKERS HAVE THE 2ND HIGHEST SUICIDE RATE. HOW ARE YOU DOING?

HEADCHECK FEELING OVERWHELMED? CALL 1-800-123-4567.



HEADCHECK FLASH CARDS

PROVIDE EDUCATION ABOUT THE SPECIFIC MENTAL HEALTH ISSUES COMMON IN THE CONSTRUCTION INDUSTRY.

GIVE PEOPLE VOCABULARY TO USE.

OFFER THE ABILITY TO HAND SOMEONE A CARD AND SAY, "I FEEL LIKE THIS."



THANK YOU



Howard S Wright + AHA

Suicide Prevention & Health Awareness In Construction



Oregon Construction Industry Suicide Prevention Task Force









Mortenson Material Handling Innovation

Travis Parks



Mobile Work Bench

This is a Rockler Material Mate Panel Cart and Shop Stand. The project team had the casework manufacturer fabricate the top as well as the storage portion of the cart. This was used for wall protection installation and it functioned as a huge time saver. The crew also utilized it as a mobile workbench for cordless tools. The top of the cart can pivot between horizontal/vertical alignment for moving around within the space. In the coming months, this will be used as a work surface to layout and cut all of the penetrations through the wall protection.





Why Is It Awesome?





LET'S REDEFINE POSSIBLE[®]



SAFEBUILD ALLIANCE



Problem Statement: with OSHA COVID 19 restrictions, we need to come up with a solution to enable two workers to occupy a scissor lift simultaneously.



Solution: A light weight removable plexiglass/aluminum divider that can be mounted onto the scissor lift rails and deployed when a second worker is required.



The primary operator is able to swing the divider into position allowing the second worker to access the lift and be within 6' of the primary operator.



The divider was designed with ease of use in mind to make it user friendly and easy to install and remove from a scissor lift.



The plexi glass divider provides complete separation between the two occupants from the scissor lift platform up 6' - 6".



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Fred Shearer





Fall Protection Planning

Fall Protection Manual Home

Fall Protection Planning

Oregon OSHA Create a plan Contact Overview Part One - Falling Part Two – Preventing falls Part Three – Preventing falls Part Four – Supported access Part Five – Suspended access Part Six – Controlling falls Part Seven – Training workers about fall

Part Eight – Maintaining equipment

Part Nine – Responding to falls

Part Ten - Overview of Subdivision M Oregon OSHA Services

Hierachy of Fall Protection Section 1 – Fall Specific Protection Section 2 – Guardrails Section 3 – Netting Section 4 – Scaffolds Section 5 – Fall Restraint Section 6 – Fall Arrest Section 7 – Rescue Section 8 – Equipment Manuals Section 9 – Forms

Cass On Line

Fall Protection Manual Home

Fall Protection Planning Oregon OSHA

Create a plan Contact

Specific Fall Protection Plan

The "Specific Fall Protection Plan" should be utilized any time an employee may be exposed to a fall 6' or greater. This plan is set up to help us evaluate the hazard and perform our work in a safe, efficient manner.Use the "Specific Fall Protection Plan" Worksheet to assist you in selecting the proper fall protection for your work. If you have any questions, please consult your supervisor and/or the FSS Safety team. While completing the worksheet keep a few things in mind:

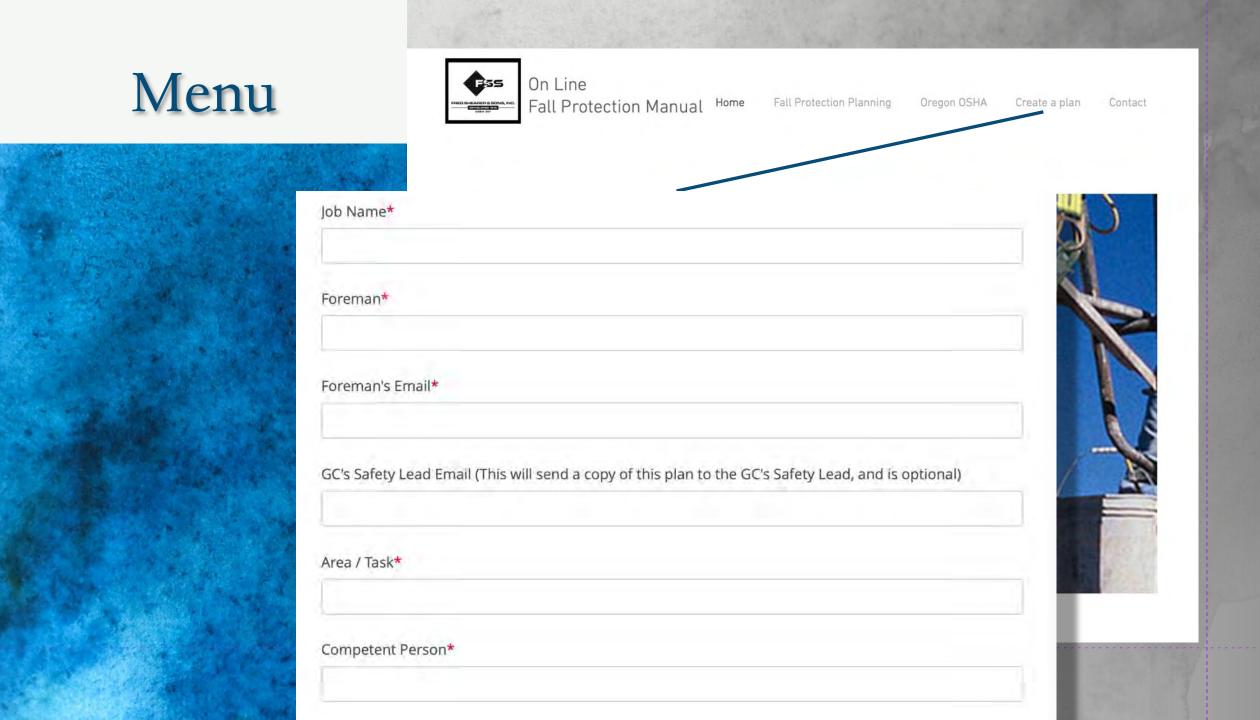
#1 Fall Arrest should be used as a last resort, exhaust all other options first.

#2 If work can be performed utilizing guard rails as outlined in section (2), this should typically be our first option.

#3 Catch platform nets can be a good option but are not typically used, see information in section (3) if this is an option.

#4 Our next option outlined in section (4) is to complete work utilizing aerial lifts, boom lifts or scaffold.

#5 If none of these options are available or cannot be utilized to perform work safely and effectively then one of the systems in section (5) should be used. In this section personal fall protection equipment will be used in a Fall Restraint mode. The requirement while working in restraint mode is to set up equipment in a manner that it will not allow the user to fall.



ess On Line

■ Fall Protection Manual Home

Fall Protection Planning Oregon OSHA

Create a plan Contact

Are Guardrails available? If yes see section 2*



Are Personnel Nets in place? If yes see section 3*

Yes No

Can Scaffold or Aerial Lifts be used? If so, is your scaffold user and/or lift card current? Please see section 4*

Yes No

Is Fall Restraint an option? If yes, see section 5*

Yes No

Fall Restraint Policy

Prior to using any fall restraint equipment, the Foreman and Employees should have reviewed the Specific Fall Protection Plan together and signed an acknowledgement. Next, the employee is to inspect and check off on the Specific Fall Restraint Equipment to be used for that task. All Fall Restraint Equipment must be checked out Daily using inspection sheets. And all Fall Restraint Equipment will return to the Job Shack every night or to its designated spot.



Fall Protection Manual Home

Fall Protection Planning Oregon OSHA

Create a plan Contact

Note: Full Body Harness with Trauma Straps is required

Do you have an approved alternate plan developed for special conditions that has been developed with the help of a competent person?

Yes

No

Upload your approved alternate plan here

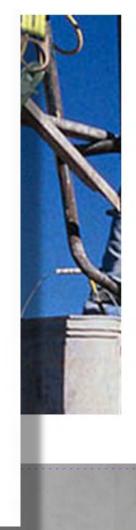
Choose File no file selected

Choose files or drag here

Signature

Date

MM/DD/VVVV





Innovations

Would you like to learn more about anything you saw here today?

More information, and ways to contact our speakers will be shared through our mailing list and on SafeBuildAlliance.com.

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Sponsor Presentation

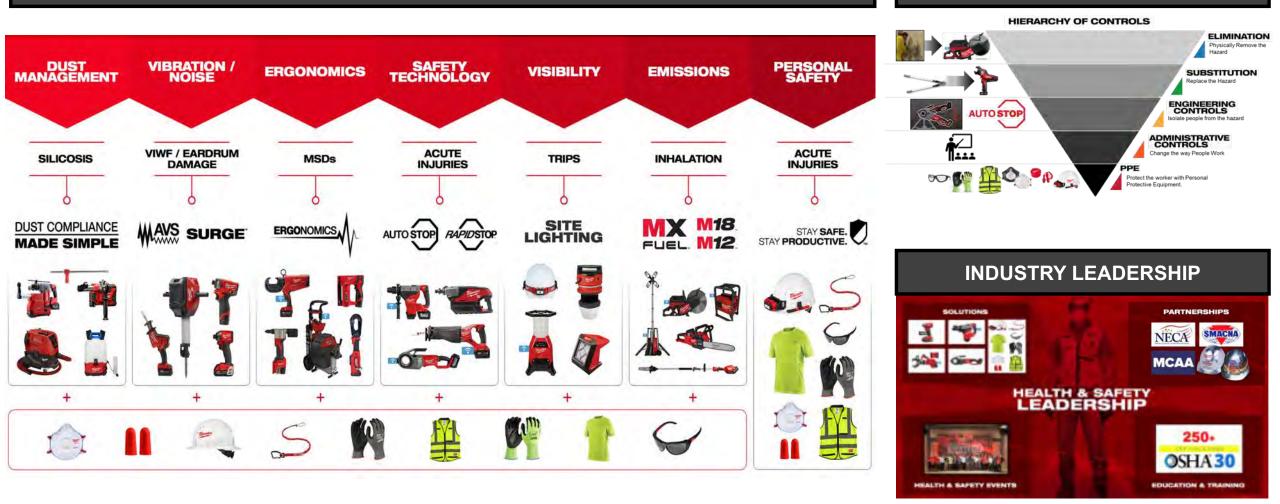






MILWAUKEE'S SEVEN PILLARS OF HEALTH & SAFETY

FOCUS ON THE SAFETY DIRECTOR



GOAL: BECOME THE INDUSTRY'S TRUSTED HEALTH & SAFETY PARTNER



Common Frustrations:

Gloves

Safety Glasses

Hard Hats

Safety Vests





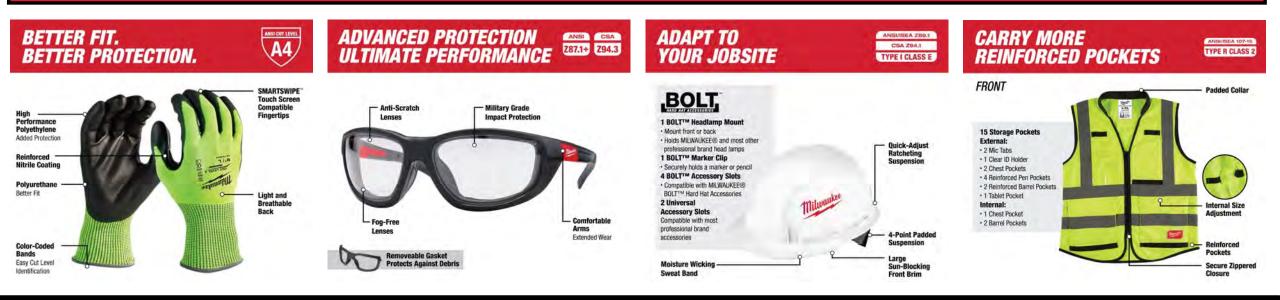








MILWAUKEE SOLUTIONS:



Innovative Ground-Up Designs to Alleviate Common Frustrations



2021 Banner Advertising Reservations

SafeBuild banner ads average thousands of impressions per month



Advertise your business effectively with SafeBuild Alliance

The SafeBuild Alliance website is an excellent, low-cost way to promote your business or services to a highly concentrated network of your target clients.

Your full-color advertisement will appear on the SafeBuildAlliance.com homepage for one full year.

By advertising with SafeBuild, you are helping to support our vision of zero incidents through collaboration. Banner ad rates are \$400 per year. Standard ad includes your logo and brief tagline (under 10 words). Please provide logos in high-resolution .jpg or .eps format. Contact karen@safebuildalliance.com for more information.

Example:



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2021 Engagement

Are you interested in becoming more involved with SafeBuild? There are many ways to contribute, including: **Board of Directors** SafeBuild Committees **Become a Mentor or Mentee Sponsorships & Advertising** Participate in an upcoming member meeting Contact jason@safebuildalliance.com to learn more!

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