

ZERO INCIDENTS THROUGH COLLABORATION

TRANSPARENCY IN SAFETY SHARING INNOVATIONS

November 10th 2020 Member Meeting



November 10, 2020 Member Meeting

Welcome - Mark Jonson

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

November 10th, 2020

A collaborative presentation between SafeBuild Alliance WA & OR



2021 Board Election

Annual board member election vote:

Mark Jonson – McKinstry

Jeret Garcia – Valley Electric

Dave Johnson – Hoffman

Jason Engelbrecht – McKinstry

Lyle Eiseman – Mortenson

Jamie Stuart – Valley Electric

Mindy Uber – Skanska

Jeff Angeley – Seattle Children's

Jesse Reyer – Pride Electric

Rayce Whitson – ATG



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?

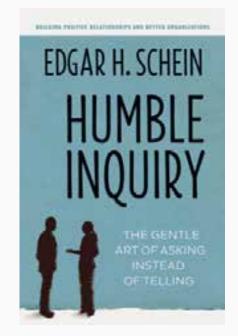
Diversity with a poor degree on Inclusion is counter-productive

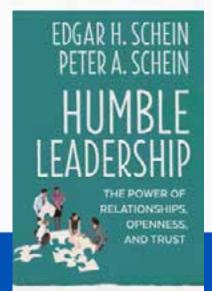


Trust Enables Innovation

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

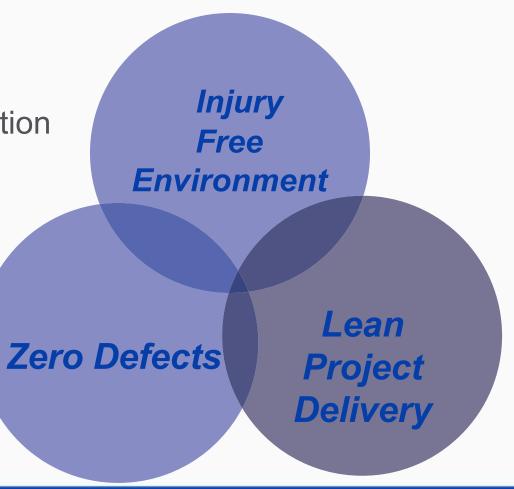






Common Themes of Progressive Management Approaches

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





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



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.



- 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



Hilti



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



OEG

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.

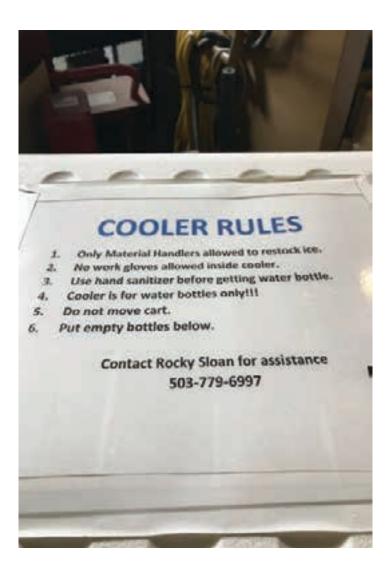
















TCM



Innovations-TCM



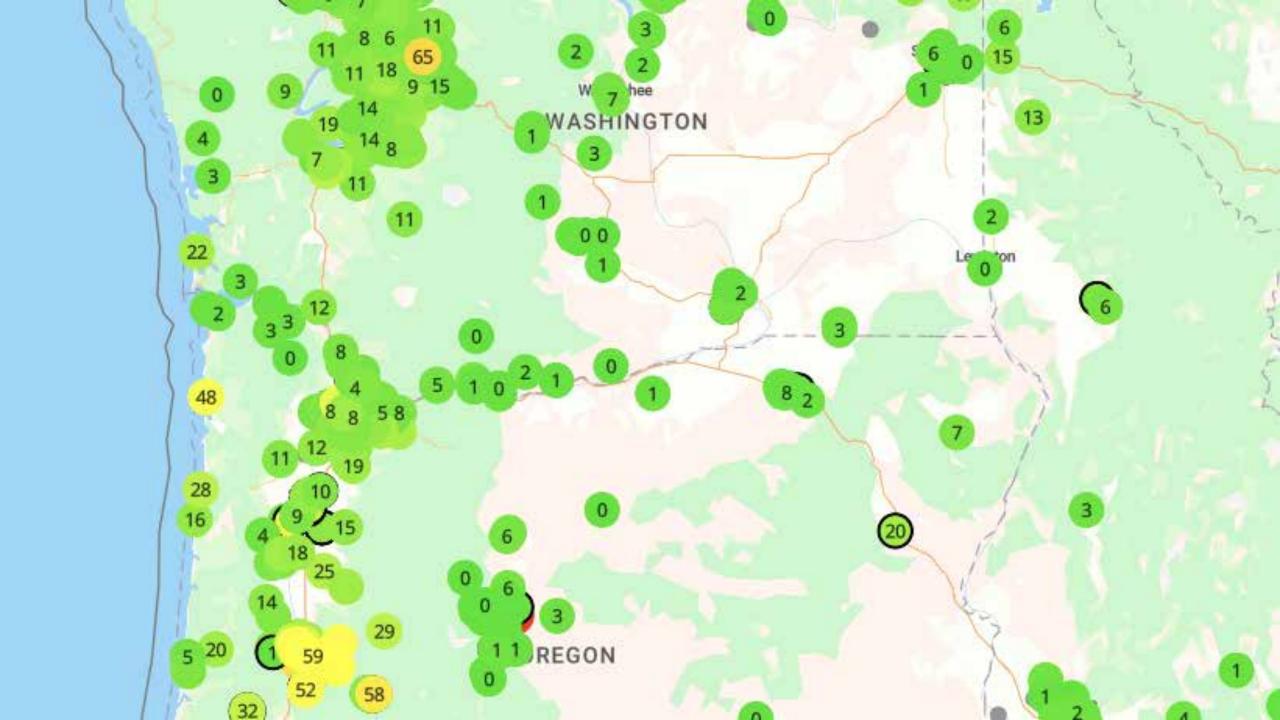


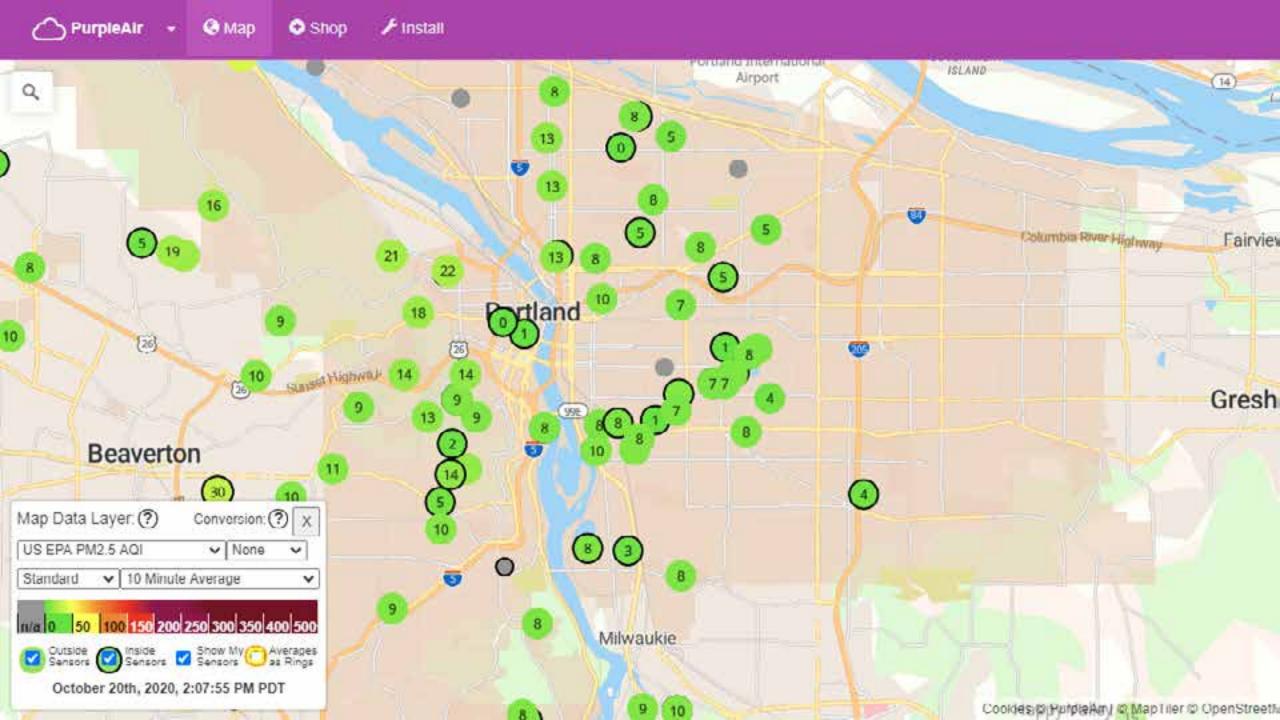














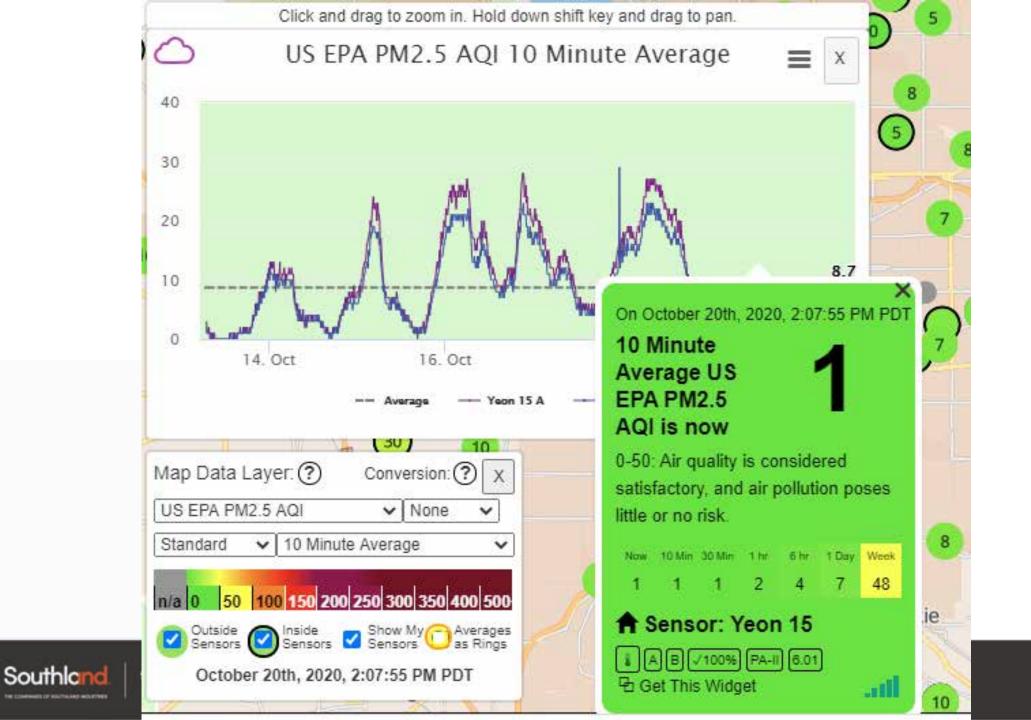




PurpleAir PA-II-SD 5279.00







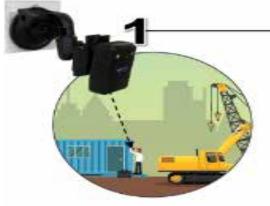




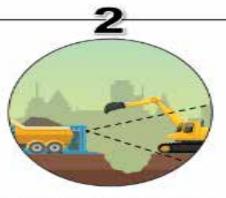
Hybrid Remote Video Auditing (RVA) & Al Services

Construction Site Portable Cameras

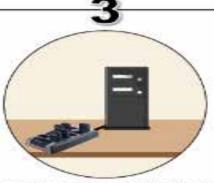




Portable cameras placed on job site at the start of shift

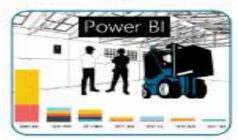


Portable cameras record entire day's activity



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





Arrowsight sends Tablet Based Power BI 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)



by Arrowsight team



Portable Camera Brackets/Mounts & Stands for the Construction Industry Arrowsight







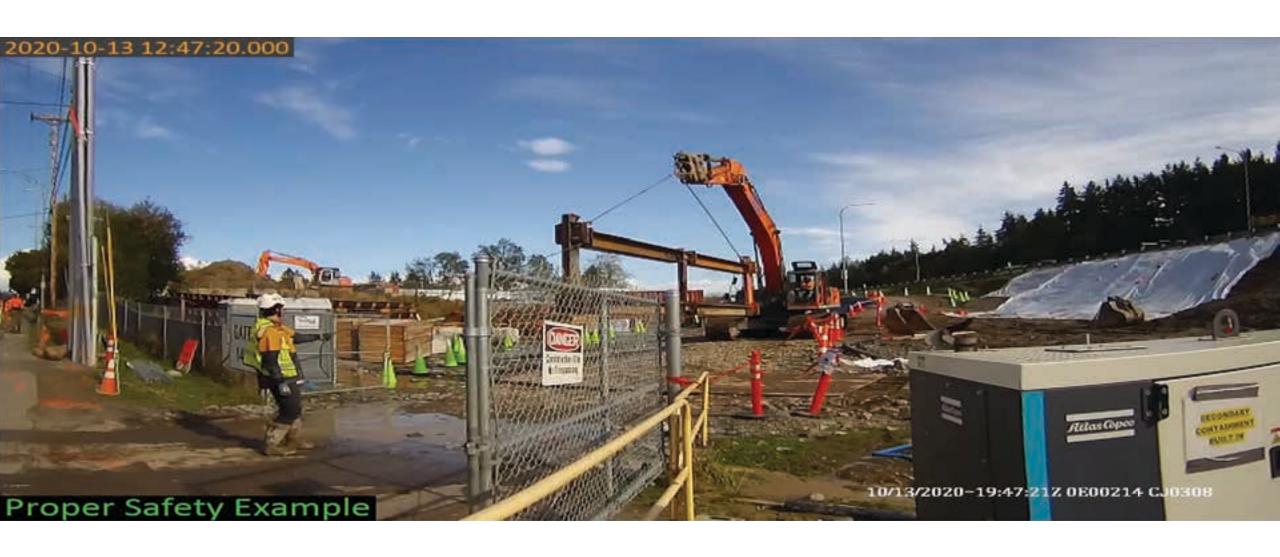
Live Load Handling



Fall Protection



Positive Observations

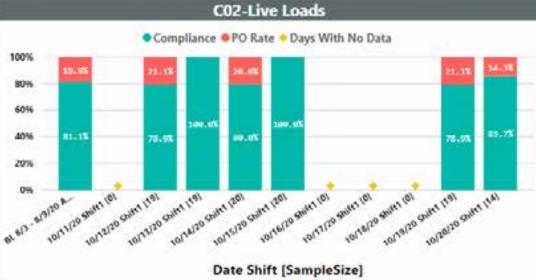


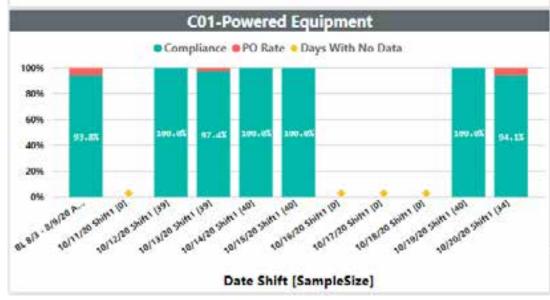


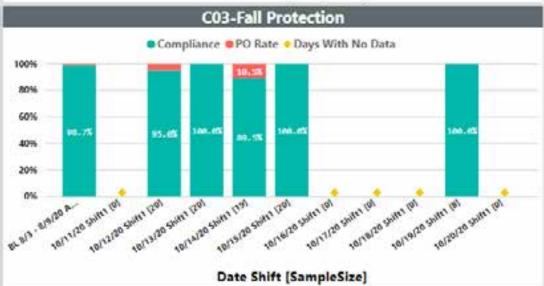
Job Site C3 Daily Worker Safety Report (10/20/2020)



PO Rate By Last Weekday				
CriteriaGroup	Total POs	Sample Size	PO Rate	Compliance
C01-Powered Equipment	2	34	5.88%	94.1 %
Shift1	2	34	5.88%	94.1 %
☐ C02-Live Loads	2	14	14.29%	85.7 %
Shift1	2	14	14.29%	85.7 %









Rosendin



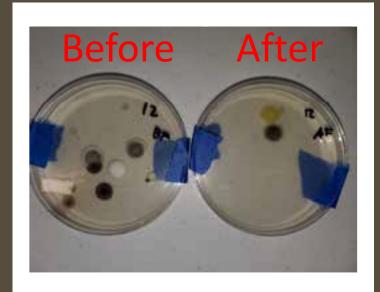


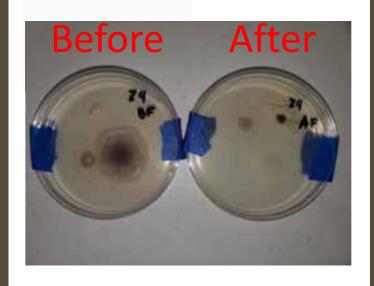
Power Breezer

- 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



Joint Action Solutions. Injury Prevention Redefined.





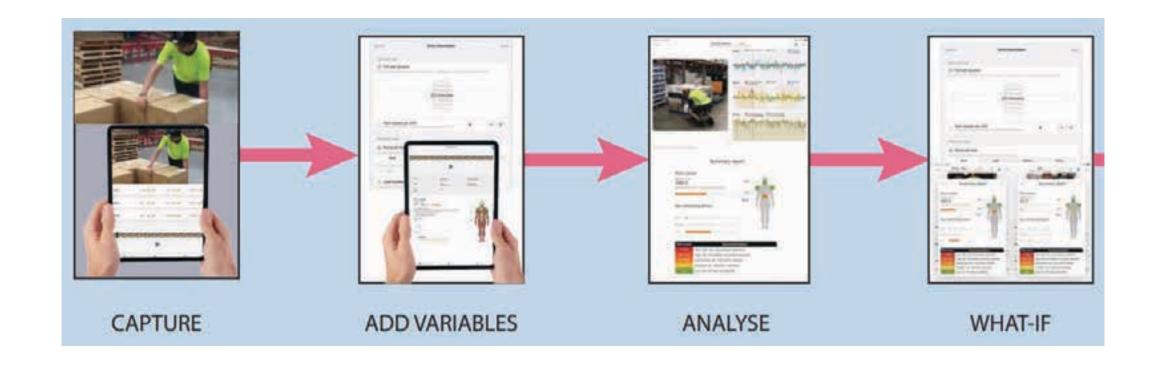






@workrightnw









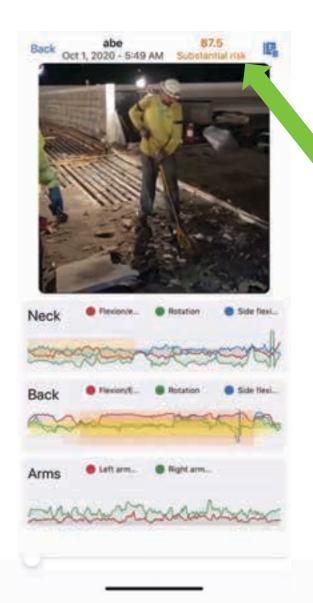




















@workrightnw





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





Hierarchy of Controls effective Physically remove Elimination the hazard Task duration max times Replace Substitution the hazard Tool Box Talks Engineering Industrial Athlete Training Isolate people from the hazard Controls Pre-shift Prep Administrative Change the way people work Controls Alternate tasks PPE Protect the worker with Personal Protective Equipment effective

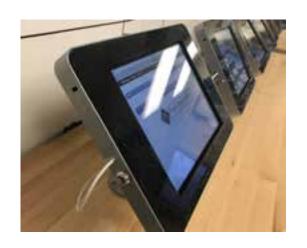




Foushee

Welcome to Alert Meter®

- AlertMeter[®] is a fit-for-duty test designed for the modern workplace
- It's a "game-like" alertness test taken on a smartphone, tablet, laptop, or desktop computer in 60-90 seconds
- The Corporate Safety Leadership Team identified this tool as a way to possibly decrease injuries in the workplace

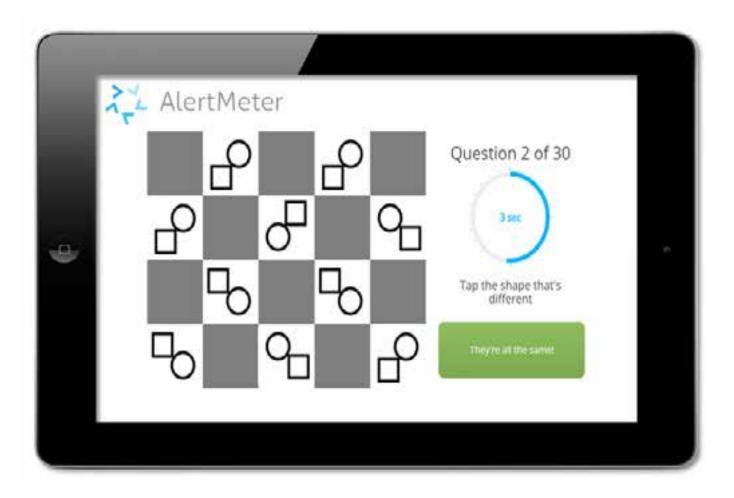












Determine if all shapes presented are the same, or if one shape is different

BEHIND THE SCENES

REPORTING

Scores are based on speed and accuracy and each test score is compared against one's own baseline

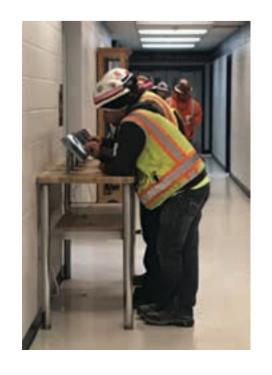
- Employees' scores are **not** compared to other employees
- Fatigue is detected when an individuals testing behavior falls outside of one's personal baseline parameters.





HOW DOES IT WORK?

- 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







HOW DOES IT WORK?

- 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







Hoffman

Tony Howard

GUTS Mental Health Campaign





MENTAL HEALTH AWARENESS CAMPAIGN:

CREATE AWARENESS.
START THE CONVERSATION.
NORMALIZE.
CHANNEL COURAGE.
PREVENT INCIDENTS.
SAVE LIVES.

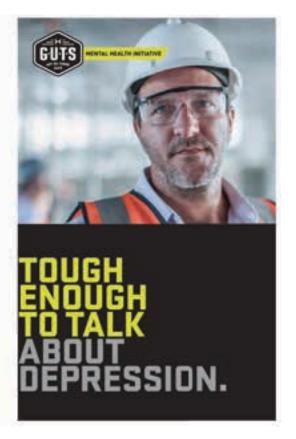


WE ALL FACE PERSONAL STRUGGLES, BUT ISSUES INVOLVING OUR MENTAL HEALTH CAN BE REALLY HARD TO TALK ABOUT. IN OUR INDUSTRY, REACHING OUT CAN BE THE DIFFERENCE BETWEEN LIFE AND DEATH. IT TAKES STRENGTH AND COURAGE TO FACE OUR DEMONS. WE'RE GOING TO HAVE TO GET TOUGH. OPEN UP AND TALK. ACCEPT SOME HELP.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

POSTERS & BANNERS









POSTERS & BANNERS







Howard S Wright + AHA

Suicide Prevention & Health Awareness In Construction



Oregon Construction Industry Suicide Prevention Task Force







Mortenson



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?











PCI

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.













Fred Shearer

Fall Protection Planning

Oregon OSHA

Create a plan



Fred Shearer and Sons 2018



Fall Protection Planning

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

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

Dregon OSHA

Create a plan

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.



Foreman*		
Foreman's Email*		
GC's Safety Lead Email (This will	send a copy of this plan to the GC	s Safety Lead, and is optional)
	series copy of this plant to the ser	and y and and a sproring
Area / Task*		

Are Guar	rdrails available? If yes see section 2*
Yes	No.
Are Pers	onnel Nets in place? If yes see section 3*
Yes	□ No
Can Scaf section 4	fold or Aerial Lifts be used? If so, is your scaffold user and/or lift card current? Please see
Yes	□ No
ls Fall Re	straint an option? If yes, see section 5*
Yes	□ No.
Fall Rest	raint Policy
Specific inspect Equipm	using any fall restraint equipment, the Foreman and Employees should have reviewed the Fall Protection Plan together and signed an acknowledgement. Next, the employee is to and check off on the Specific Fall Restraint Equipment to be used for that task. All Fall Restrainment must be checked out Daily using inspection sheets. And all Fall Restraint Equipment will to the Job Shack every night or to its designated spot.

Date

MIMINDOWWY

Do you have an approved the help of a competent p	alternate plan developed for special conditions that has been developed with
_ 20% 20 2	person
Yes	
No	
Upload your approved alt	Choose files or drag here
Signature	
Signature	



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 next week.

ZERO INCIDENTS THROUGH COLLABORATION





Sponsor Presentation





Milwankee HEALTH & SAFETY

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







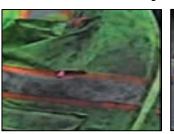






CSA 2944

TYPE I CLASS E





MILWAUKEE SOLUTIONS:











ADAPT TO YOUR JOBSITE



CARRY MORE REINFORCED POCKETS





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@safebuildaflance.com for more information.

Example:





2021 Engagement

Are you interested in becoming more involved with SafeBuild?

There are many ways to contribute, including:

SafeBuild Membership

Board of Directors

SafeBuild Committees

Participate in an upcoming member meeting

Sponsorships & Advertising

Contact jason@safebuildalliance.com to learn more!

The next SafeBuild Alliance meeting will be Q1 of 2021