

ZERO INCIDENTS THROUGH COLLABORATION





### October 23, 2023 Member Meeting

Welcome - Brian Knudsen

Welcome

Thank you to our sponsor & presenters

**New & Returning Members** 

**Presentation – Transparency in Safety: Sharing Innovations** 

**Sponsor Presentation – Acme Construction Supply** 

**Closing Message** 



### **NEW & RETURNING MEMBERS - 2023**

### **Maxim Crane**

**Pence Construction** 

**United Rentals** 

Wavecel



### **Innovations Member Meeting**

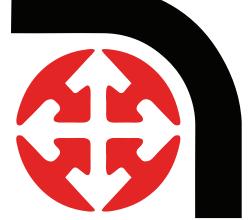
# Transparency in Safety: Sharing Innovations

Octoer 23<sup>rd</sup>, 2023



### Thank you to our sponsor







### **Innovations – Contributors**

Rosendin • McKinstry

United Rentals • ATG

Wavecel • St Helens High School

Whitaker/Ellis + Prime Perf • JE Dunn

Cochran • Mortenson

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



### ST. HELENS HIGH SCHOOL

### New Safety Concept

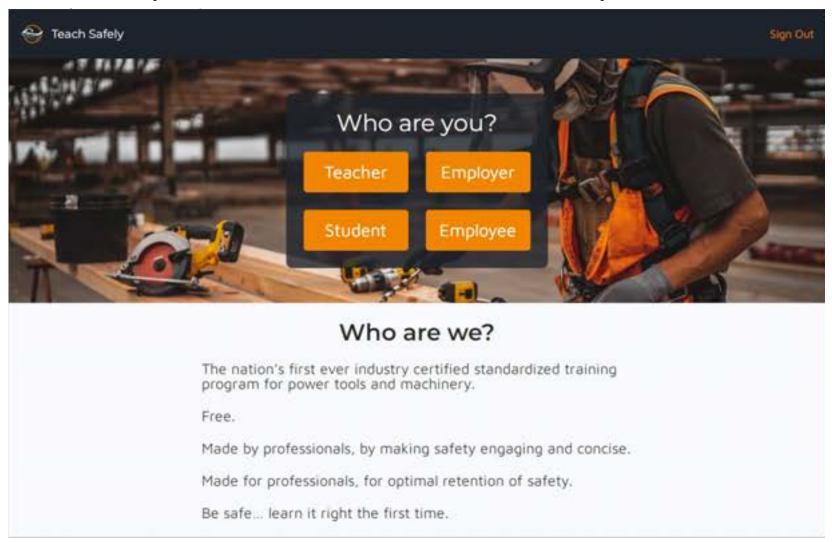
### Background / Issues

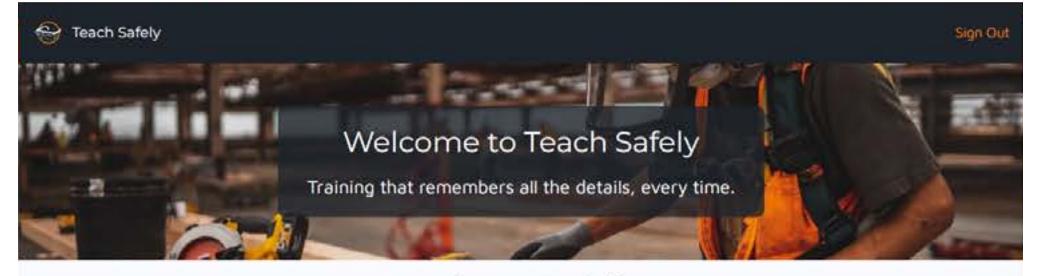
- Students in the back row have a harder time focusing on safety
- Transfer students need to repeat all safety training at each new school
- Business and Industry have no idea what schools teach, in regards to safety. No standards.
- Safety training is partially dependent on how well the teacher engages the classroom
- Professional safety videos are expensive so schools vary on training curriculum
- The last well done professional safety videos were done in the 80's
- New teacher's classrooms are prone to more injuries due to lack of experience
- Industry recognized credentials in safety require purchasing of curriculum
- Safety has to be covered in-class
- Coverage of safety is dependent on the instructor's memory

### Solution

• Create our own safety videos that are free for everyone, with online

availability,





#### **Employee Training**

Do you have a new employee who needs some training?

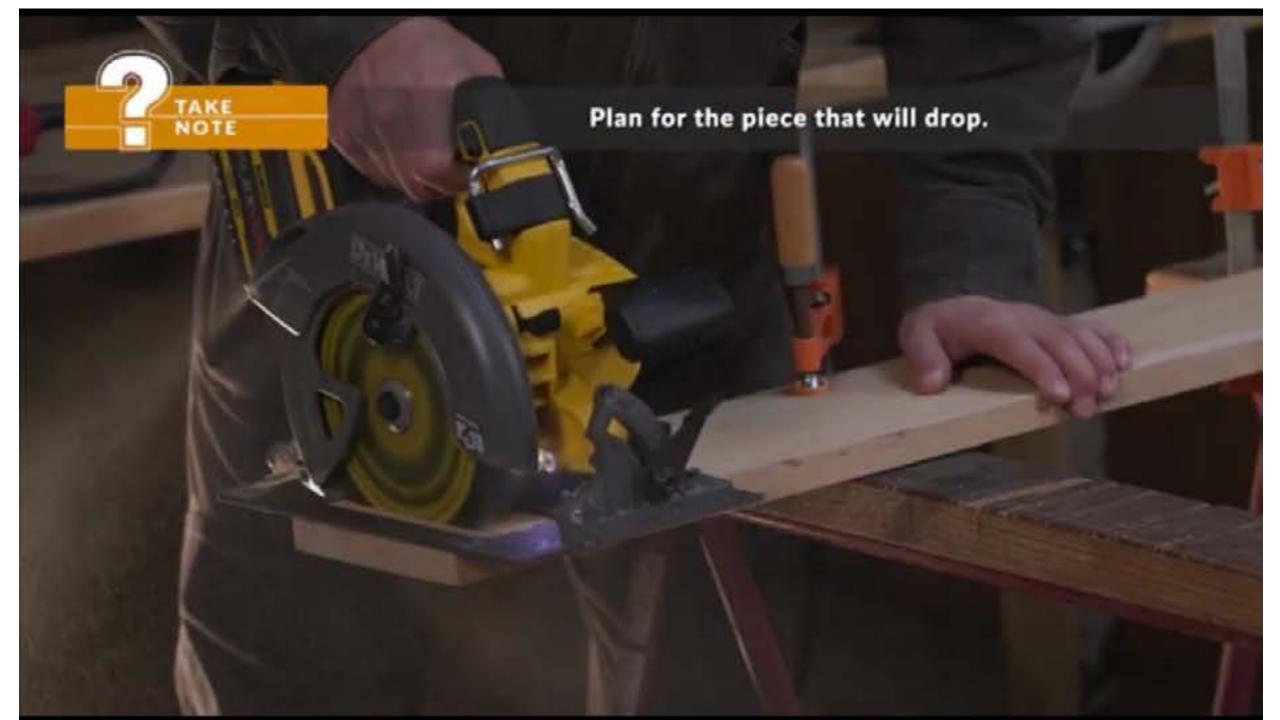
Do you have a current employee who wants to learn something right or be refreshed on a tool?

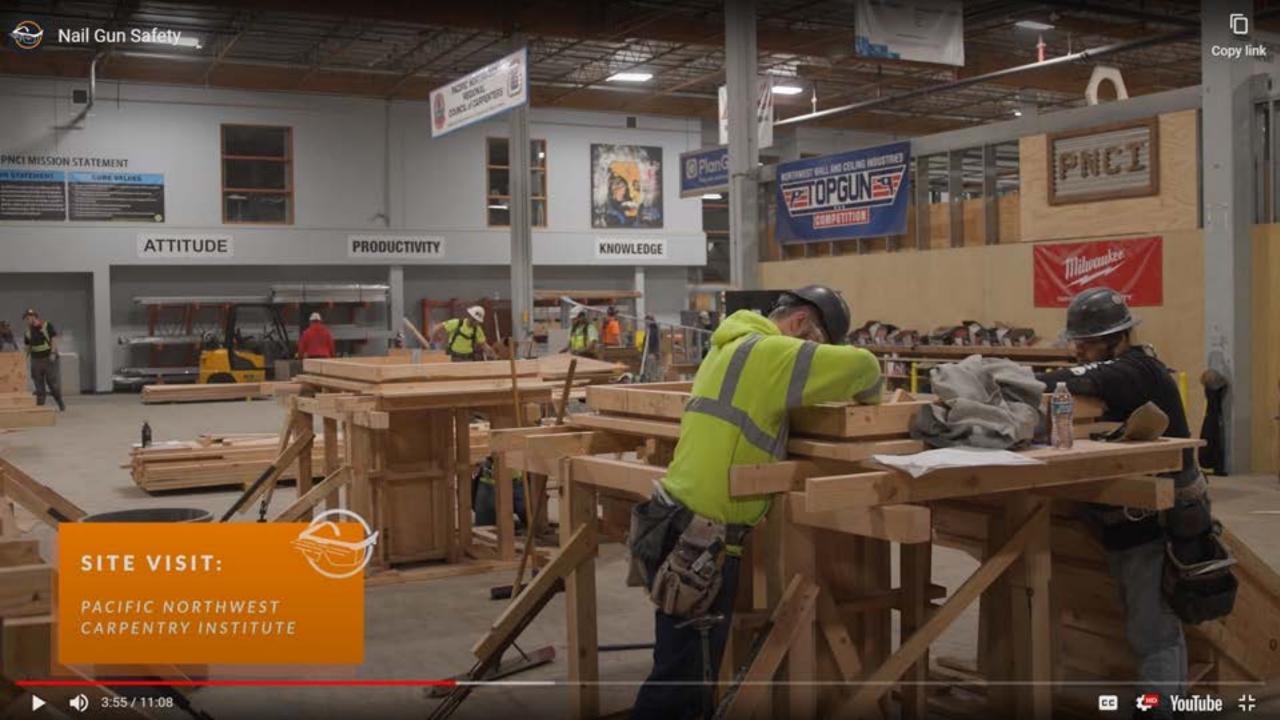
Send your employees here. They will put in your email and you will be emailed when they successufully finish each course.

#### Current tools include:

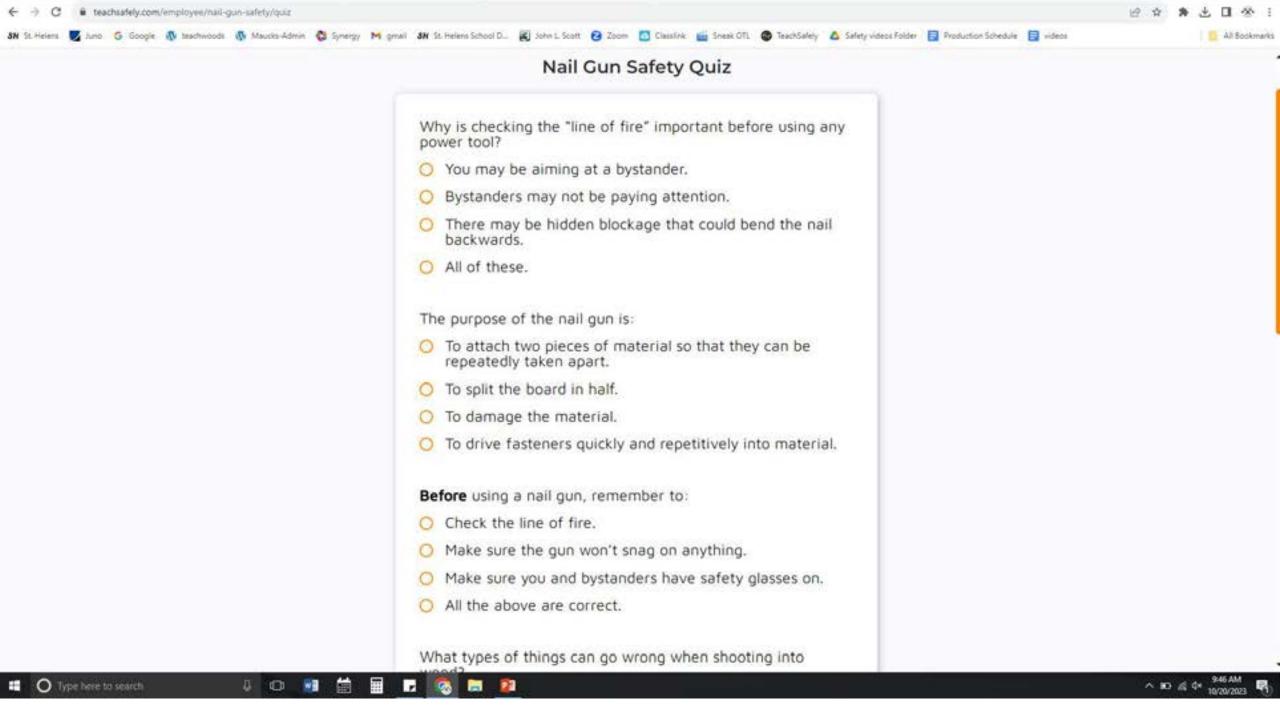
- Band Saws
- Drill Presses
- Miter Saws
- Nail Guns
- Portable Drills
- Sanders
- Wood Lathes

- Circular Saws
- Jointers
- Multipurpose Saws
- Planers
- Routers
- Table Saws











### WHITAKER/ELLIS + PRIME PERF



### SAFETY INNOVATION

CONVERT POTENTIAL INTO WORLD CLASS SAFETY, HEALTH & PERFORMANCE



### **CASE STUDIES**

We provide experienced professionals to help workers detect early signs and symptoms, provide first aid, and facilitate fast recovery.

We transform the way employees warm up for the workday, delivering company approved exercises to move well and be strong.

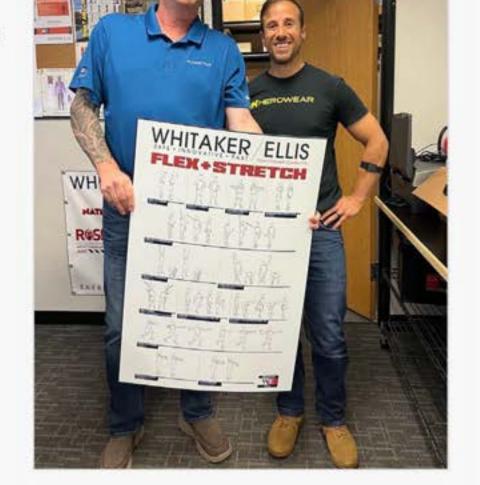






### **PERSPECTIVE**

- Opportunity for <u>Engagement</u> with field employees
- <u>Leadership</u> at all levels that promotes coaching
- Employee Involvement Demonstrates mutual trust and respect
- Risk Assessment of unrecognized hazards
- Demonstrates care for total worker health- not just work-related injuries.
- Develops camaraderie between Management and field labor.
- Very cost effective. We spends hundreds of thousands of dollars on PPE- spending a few thousand dollars on a direct benefit seems to be money well spent.
- Competitive labor market- we want to be the company that people <u>want</u> to work at.
- Opportunities to learn and innovate at all levels, while collaborating with people that do the work.





### **OUR SERVICES**

We provide a spectrum of services to help your company solve problems and optimize performance.

How can we help?





#### Warm Up, Flex & Stretch Programs

Customized programs to prepare employees for work demands.

Early Detection & Intervention Address root causes of MSDs to promote a healthler work environment.



#### Safety Programs

Evolve your safety program, track KPIs, and monitor compliance in real time.



#### Ergonomics

Identify, quantify and eliminate ergonomic hazards to prevent MSDs and lost time.



#### Return to Work & Accommodations

Assist injured employees with accommodations and systematic return to work programs



#### Health & Wellness

Custom programs for managing heat, stress, fatigue, nutrition, recovery and readiness.



#### Safety Technology

Expertise in exoskeletons, VR, AI, drones, telematics, wearables, software, and more.



#### Implementation Programs

Helping companies validate and adopt new technology efficiently and effectively.



### **CONTACT US**

Prime Performance Safety Innovation Specialists

Matthew Marino, PT, MSPT CEO

Physical Therapist
Performance & Sport Scientist
Strength & Conditioning Coach
Certified Professional Ergonomist

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primeperformancept.com











### COCHRAN



### **Transparency in Safety**

## - Innovative Design - Low Voltage Pull Box Cover

Created by Matt Niswonger, General Foreman















### Imagine removing this cover.

- Overhead
- Large 36 x 36 Metal Cover
- Heavy 23 lbs
- Awkward

Does it really need to be so heavy?





### How can we avoid the hazards of the heavy overhead covers?



Change the location of the overhead pull boxes? NO

Change the design of the cover? YES





### **MOCK-UP**

Overhead

Above Ceiling Grid









### Collaboration



### **Approval**

**Confidential Client** 

**Electrical Inspector** 



### **Thank You**

GF Matt Niswonger - who is always thinking of a way to do it better, safer, and more efficiently.

Foreman Ray Brown: for his work to bring this idea to fruition.

Our confidential client for their ongoing support.

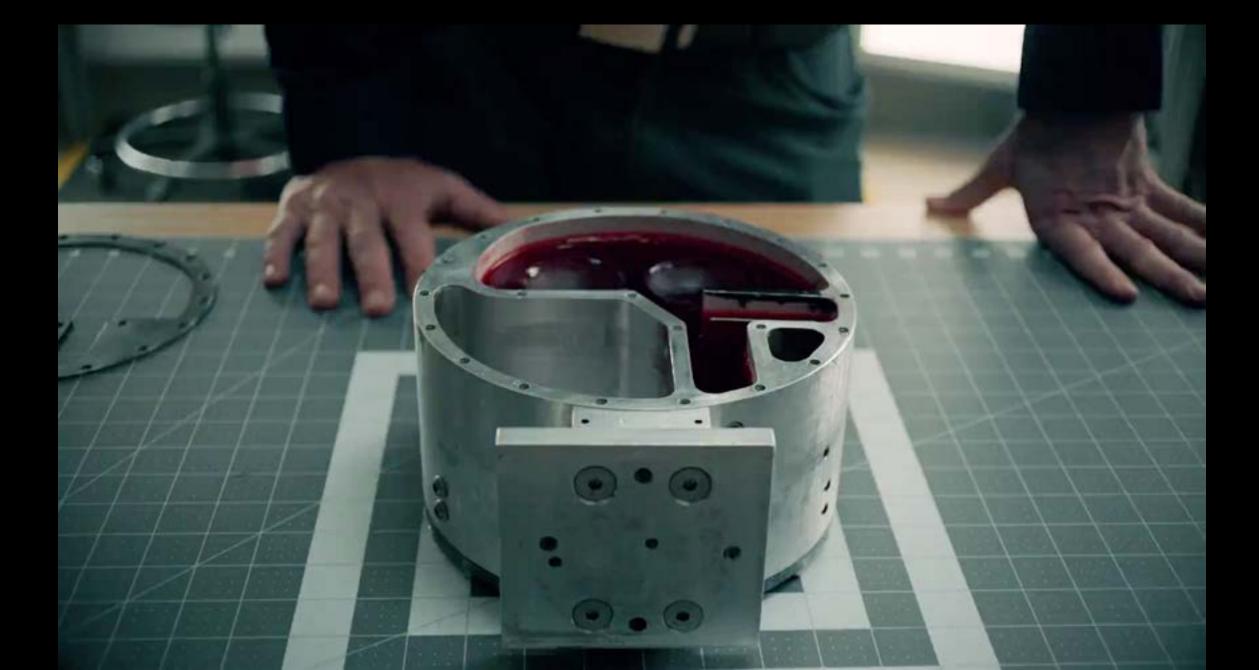




### WAVECEL

### Not All Helmets Are Equal

Dr. Steve Madey





### WaveCel Technology



# WAVECEL T2<sup>+</sup> Helmets

2 Full-Brim Models: PRO (non-vented) + MAX (vented)

Vented (16cm<sup>2</sup> venting)



WAVECEL TE® MAX WAVECEL TE® PRO Non-Vented – Class E





# WAY WAVECEL

Safety Beyond Standards



# ROSENDIN



# Recognition Program

# Hazard Awareness/Identification Recognition

- Purpose is to recognize employees who go above and beyond with hazard awareness/identification in the field.
- Recognitions will be reviewed to ensure they are focused on actions toward safety, as well as for appropriateness.
- Each week the hazard recognition for the week will be reviewed on by Field Leadership and Project Management to select winners.
- The winner will be given a recognition gift and talked about at the next all hands safety meeting.

# PEERS Recognition

- Providing Extra Effort in Recognizing Safety (PEERS).
- Intended to enable all employees to recognize their peers for safety actions, large and small.
- Intended to recognize actions (that while expected as part of normal job responsibilities) demonstrate a commitment to safety in the workplace.
- The winner will be given a recognition gift and talked about at the next all hands safety meeting.

# Peers Recognition

(Providing Extra Effort in Recognizing Safety)

# Hazard Recognition





# Examples of Recognition Entries

Artem Recognized a hazard with loto and found a solution to ensure safety of field.

John brought up painters painting without ventilation in north corridor 300. He brought it up to George and I, we put him on a new task out of the area. John also mentioned all the paint dry-fall on the ground makes it slippery to walk on. He and I brought it up to Safety.

Keith discovered damaged Fire extinguisher handle. Reported it to safety.

Steven red taped and threw away a cord missing the ground prong. Ground Fault Safety taken seriously.

Victor recognized another contractor in a cabinet that was not properly LOTO. He applied a control lock to the breaker and coached the workers on the hazard and site LOTO policy.

Nate has continuously gone above the standard of explaining how the systems we are working on are laid out. He is more than willing to walk through the one lines and verify all panels and disconnects so that we can be safe downstream. As apprentices it's easy to not fully comprehend the whole picture especially when it comes to LOTO. He makes it easy to follow and know what is happening.

Tom reported a fan cord was damaged and the ground prong at the plug is broke off. Knowing someone was shocked from this style of fan before I wanted to report it.



# MORTENSON

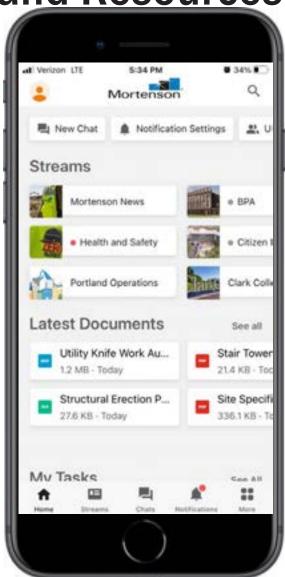


**Health & Safety/Quality Updates** 

**Team Member Workbench** 

Project Site Info

**Forms** 



**Policies** 

Improvement Ideas

**Good News Updates** 

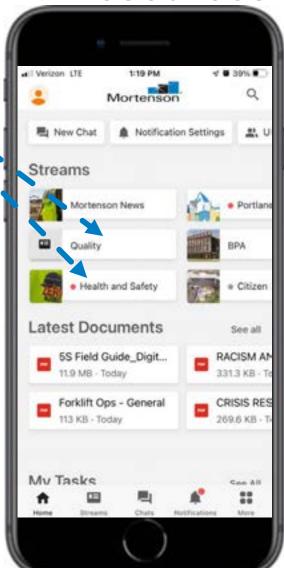
Resources

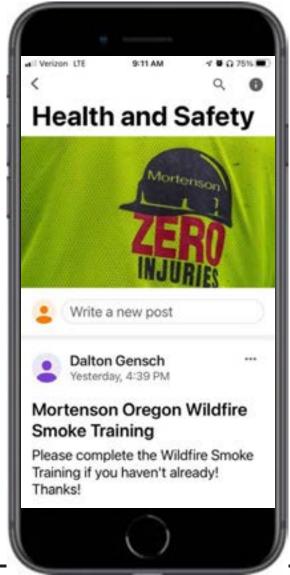






**Health & Safety / Quality Updates** 



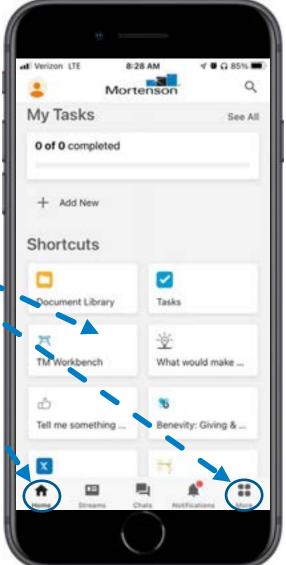








**Team Member Workbench** 



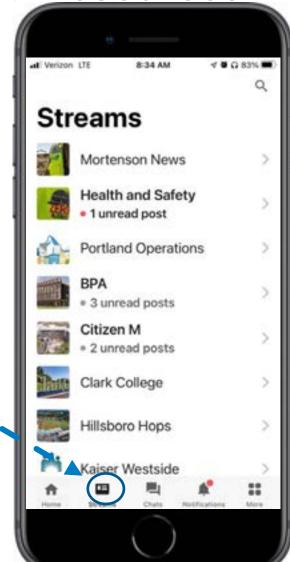








**Project Site Info** 



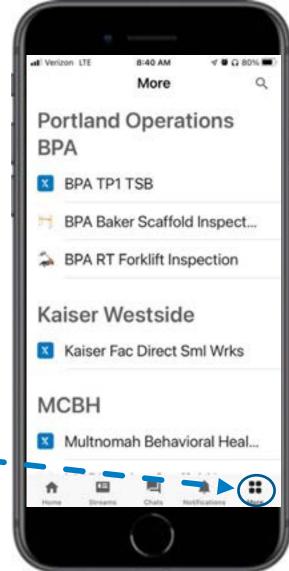


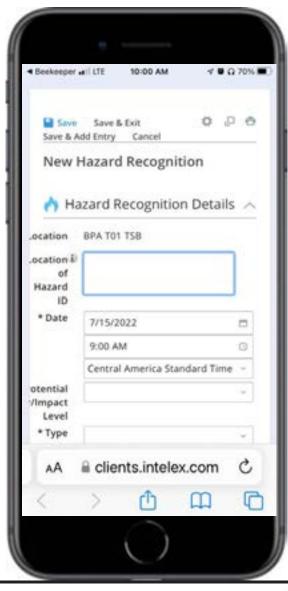






**Forms** 



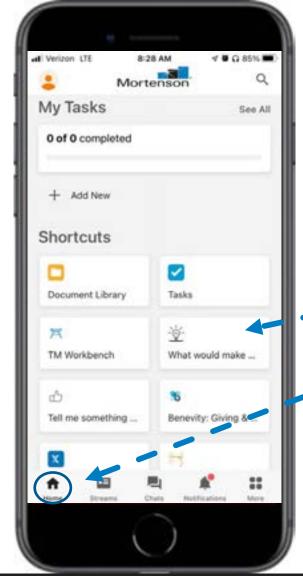


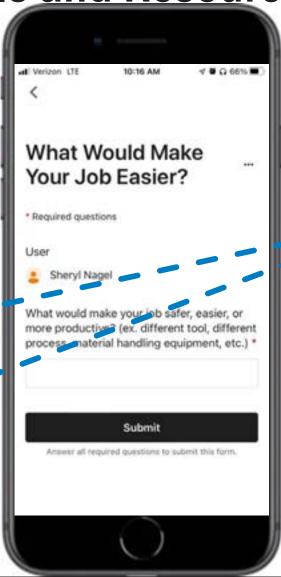










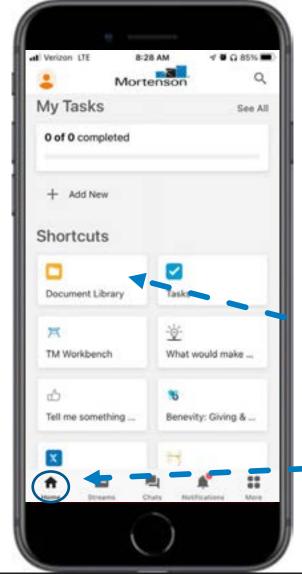


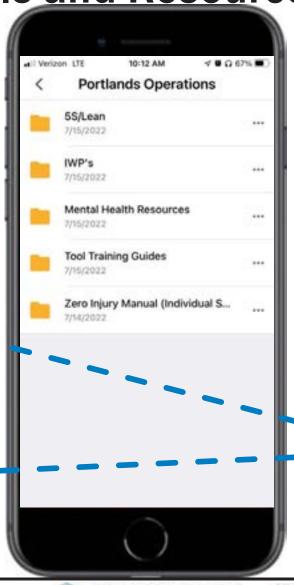
Improvement Ideas











Resources









# UNITED RENTALS

# **UNITED RENTALS**

2023 SafeBuild Alliance Innovations Meeting

October 23, 2023





## Sustainable Equipment & Technology Offering

#### Equipment

- Electric, alternative & hybrid vehicles
- TB20e Electric Compact Excavator
  - Zero exhaust emissions
- Ford F150 Lightening pickup trucks and E-Transit Vans
- Fluid Solutions products
  - Remove air and water contaminants
  - Wastewater treatment & storage

#### Technology

- Emissions tracking through Total Control
  - Estimate GHG emissions
  - Track engine hours and utilization to right size fleet
  - Telematics to track equipment and maintenance logistics
- POWRBANK Zero-emission battery systems



# **Equipment Access Management – Key Pads**

- Remotely control who can access your rental equipment
- Provide access only to approved and properly trained operators
- Prevent other contractors from using your equipment
- Track equipment use by operator, business unit or trade
- Manage equipment damage
- Track location and utilization with built in telematics
- Protect against theft / Increase recovery rate
- Unmanned Yards
- Works with Kin devices



#### **USER GUIDE**

#### Using key pad:

- Type pin code
- 2. Confirm with
- 3. Green light indicates authorized ID
- Begin operations

#### Using RFID:

- Present card in front of reader
- A beep signal indicates correct reading of the card
- Green light indicates authorized ID
- Begin operations



#### **Worksite Monitoring**



- 24/7 Temp & Humidity
- Real Time Alerts
- Reports for Warranty
- Manage Sub Contractors

#### **Smart Heat**



- Reduce fuel by 50%
- Reduce Carbon Footprint
- Remotely Monitor & Control Worksite

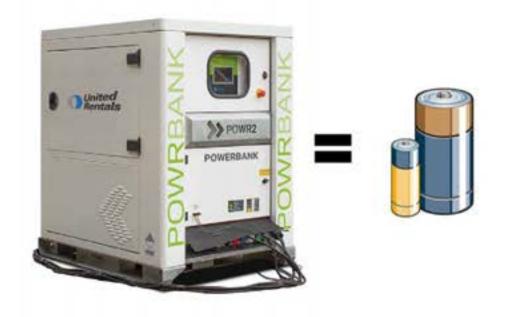
#### **Concrete Monitoring**



- Reduce manpower
- Proactive reporting
- Reports for Warranty
- Concrete Maturity



# Hybrid Power – BESS & Generator combined



Powr2 is a large energy storage device that can be used with a generator or renewables The Generator restarts when batteries are depleted or when demand exceeds what the hybrid can support

The generator is switched off seamlessly by the hybrid and silent clean power is supplied by the batteries

The generator is used to recharge the batteries under optimum load

# Hybrid Power Benefits of Using Hybrid Power

- Noise reduction
- NoX & Particulate matter
- Carbon Emissions
- Fuel Savings
- Service & Maintenance
- Breakdown
- Critical Power
- Confined Space



# O United Rentals® Work United®

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Matt Pierce
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(206) 240-7434



# JE DUNN

# A New Approach to Adult Training in Construction

October 23, 2023 Royal Willard, MPH, CSP Senior Safety Manager JE Dunn Construction



## The major types of adult learning styles



Visual



Auditory



Linguistic



Logical



Intrapersonal



Interpersonal



Kinesthetic



edgepoint learning



# Live Safety Demonstrations



- Live in-person demonstration on the importance of hand safety and how proper PPE can help to reduce or eliminate injury
- Demonstrates the common causes and outcomes of injuries
- Can help to influence risk perception and tolerance
- Lasting mental impression
- Improvements in hand safety



# Safety Culture Speakers

#### Matt Pomerinke

- Working at a lumber mill when his arm was caught in an unguarded conveyer drive chain and ultimately his arm was amputated just below the elbow.
  - Just 21 years old at the time of the incident
  - This was his first job
- Discusses why safety is so important and the consequences of what can happen when you disregard it
- https://www.youtube.com/wat ch?v=sTdClkdEmxo&t=97s





# Hands On/Interactive Training







Vs.



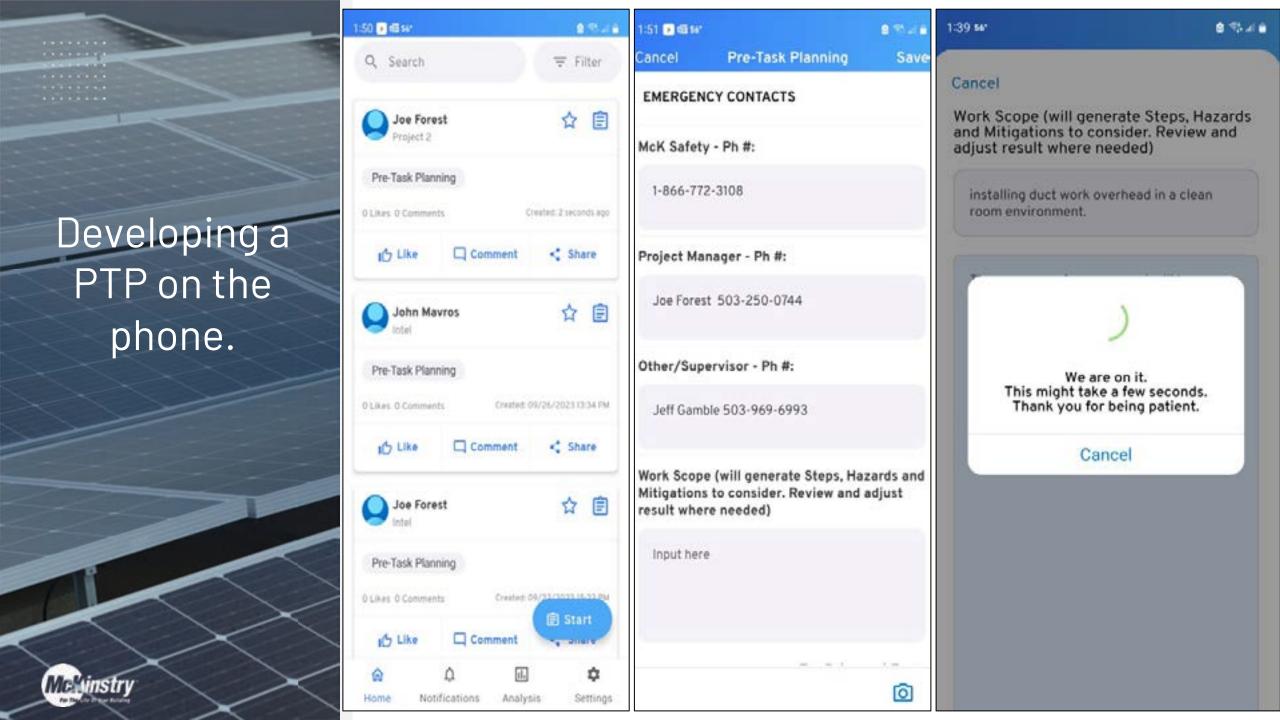




# MCKINSTRY

# What is the next evolution of the Pre-Task Plan?









Work Scape (will generate Steps, Hazants and Mitigations to consider, Baview and adjust result where needed? Pre Work Plan - Installing Duck Work Overhead in a Clean Reser Environment a. Install duct erork overhead in a clean room environment. a. Condust a thorough inspection of the class room area to identify any potential hypands or b. Plan and design the layout for the duct work installation, enguring proper alignment and SUSPINE. c. Prepara the necessary tools, equipment, and materials required for the installation. d. Install hargers or supports for the shot work, ensuring secure attachment to the uniting or exalts. e. Assemble and connect the slutt sections, amounting proper sealing and alignment f. Test the dust work for any leaks or defects. g. Clean up the work area and remove any debris or waste materials. 3. Hazardh Associated with Work Steps: is. Potential hazards may include: Man, trips, and falls while impecting or working in the clean room area. Falling objects or materials during the installation process. Exposure to hazardous substances or chemicals used for scaling or chemicals tradequate ventilation leading to poor air quality within the clean room. Electrical hozards while working with power tools or equipment. Physical strain or injuries due to improper lifting or handling of heavy dust sections. A. Ways to Wrigate Halands a. Silps, trips, and falls: Use appropriate personal protective equipment (PPE) such as non-stip shoes. Keep the work area clean and fran from any obstacles or debris. install temporary guardrais or barriers ensure open edges or floor openings. Securely fasters all shock sections and materials to prevent accidental shipologing. Use proper lifting techniques and equipment when handling heavy objects. Ensure that all tools and equipment are properly stored and secured when not in use. c. Exposure to hazardous substances or chermans: Provide appropriate PPE such as gloves, goggles, and respirators. Ensure proper ventilation and use of exhaust systems to recoming exposure. Follow safety data sheets (SDS) and manufacturers instructions for handling and using chemicals. Monitor air quality regularly and ensure proper functioning of ventilation systems. Use air purifiers or filters to maintain them air within the clean room area. a. Kinchrical hazardis. 2/3 Ensure all electrical equipment and bools are properly grounded and in good working condition. Follow looks outragout procedures when working on electrical systems. Provide training on electrical safety and proper one of equipment. f. Physical strain or injuries Provide training on proper lifting sectniques and use of lifting equipment. Use mechanical aids such as holds or snares to lift heavy stuct sections. Encaurage breaks and rotation of tasks to prevent overexection. 5. Three Questions to Spark a Lively Conversation on Hazards:

a. How can we ensure the clear room eres is here from any potential stip, trip, or fall hazards.

b. What measures can be implemented to prevere the accidental dissolping of duct semiors and

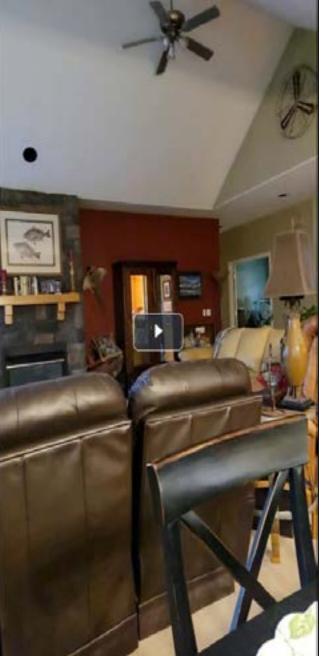
c. How can we effectively manage and control exposure to hazardous substances or chemicals.

during the impalution process?

materials, reducing the risk of falling objects?

ensuring the safety of workers and maintaining a steam environment.

# Recording the scope of work and translating it to a text document.





#### Observation Details

Imprection Date: Oct 16, 2023, 02:05 PM POT

Observer: Joe Forest Project: Project 2

#### Pre-Task Planning

OVERVIEW

**EMERGENCY CONTACTS** 

McK Safety - Ph. Fr.

1-865 772-1108

Project Hanager - Ph F:

or Forest 303-250-0744

Other Supervisor - Ph #:

Jeff Gamble 503-969-6963

Work Scope (will generate Steps, Hasards and Mitigations to consider. Review and adjust result where needed)

Fre Work Flat: Changing Light Builds and Smoke Detector Batteries.

#### Work Scope:

The work scape involves changing light bulbs and snoke detector batteries in a commercial building. The following steps outline the work associated with this task:

- Identify the areas in the building where light bulbs need to be replaced and snoke detector batteries need to be chanced.
- Gather the necessary tools and equipment, such as a ladder, replacement light bulbs, and batteries.
- Ensure proper safety measures are in place, such as wearing personal protective equipment. (PPE) like gloves and safety glasses.
- 4. Safely access the light fixtures and smoke detectors using a ladder or other appropriate means.
- 5. Remove the old light bulbs and batteries.
- 6. Install new light bulbs and batteries, ensuring they are the correct type and properly seated.
- Test the functionality of the light builts and smoke detectors to ensure they are working correctly.
- 8. Clean up any debris or waste materials generated during the process.
- 9. Document the completion of the task and any issues encountered.

Hazords Associated with the Work Steps:

- 1. Falls from heights when accessing light fixtures or smoke detectors.
- 2. Electric shock or electrocution when handling electrical components.
- 3. Exposure to hazardous materials, such as broken glass or leaking batteries.
- 4. Strains or sprains from improper lifting or carrying of tools and equipment.
- 5. Inadequate lighting in work areas, leading to potential accidents.

Ways to Hitigate Hazards:

- Use appropriate fall protection equipment, such as a ladder with stabilizers or a safety harness, to prevent falls.
- Ensure power is turned off before handling electrical components and use insulated tools when necessary.
- Wear appropriate PPE, such as gloves and safety glasses, to protect against exposure to broken glass or leaking batteries.
- 4. Use proper lifting techniques and seek assistance when necessary to prevent strains or sprains.
- 5. Provide adequate lighting in work areas or use portable lighting sources to improve visibility.

Three Questions to Spark a Lively Conversation on Hazards:

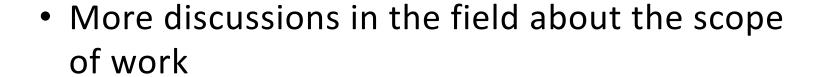
- How can we ensure that all workers are properly trained in fall protection measures and understand the importance of using appropriate equipment?
- What steps can be taken to minimize the risk of electric shock or electrocution when handling electrical components during light bulb and battery replacement?
- Are there any specific procedures or protocols in place to address the proper disposal of broken light builts or leaking batteries to prevent exposure to hazardous materials?





# Benefits of A.I. being used in the field.





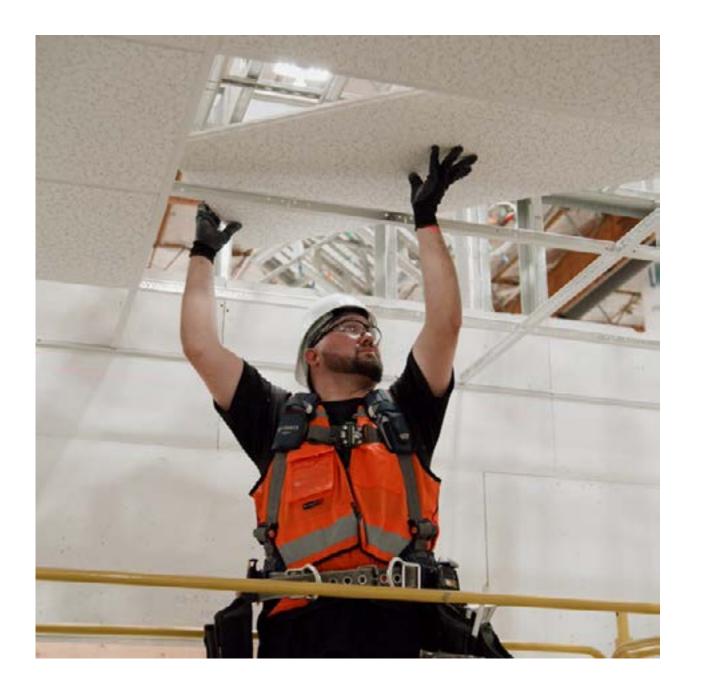


More engagement in the field from other co-workers

Communication of the expectations for leaders



## **ATG**



20/23

## TRANSPARANCY IN SAFETY INNOVATIONS



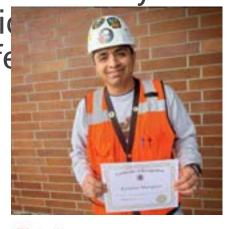


## // STOP Program

Implemented in October 2022, ATG's STOP Program recognizes safe, thoughtful, observant, and proactive individuals or teams for safety

and/or process improvements which injuries/impacts and positively affer project or the company overall.







Promotockim hadnly Pillahoud?





## // Work Right NW

Work Right NW integrates an innovative model of workplace wellness – bringing Athletic Trainers and Physical Therapists as Injury Prevention Specialists to the job location.







## // Psychological Safety

Psychological safety is a shared belief that the team is safe for interpersonal risk-taking. In psychologically safe groups, team members feel accepted and respected.

Safety increases when the four quadrants of psychological safety thrive.





## ACME



Q Keyword, Product ID, Brand

My Account LOG OUT



SHOP BY CATEGORY ▼

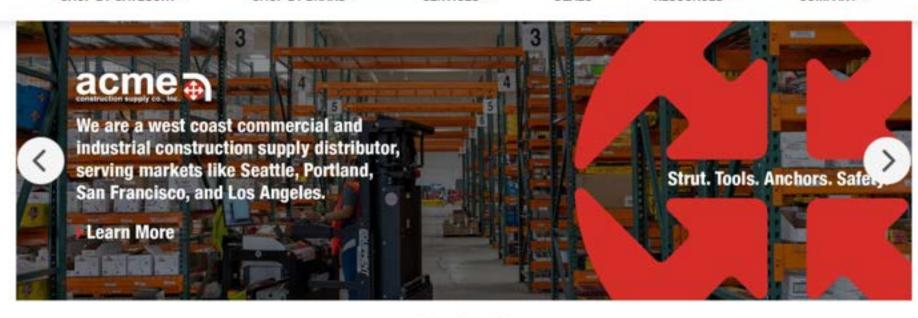
SHOP BY BRAND ▼

SERVICES ▼

DEALS

RESOURCES ▼

COMPANY ▼



**Top Selling Categories** 

View All Product Categories >

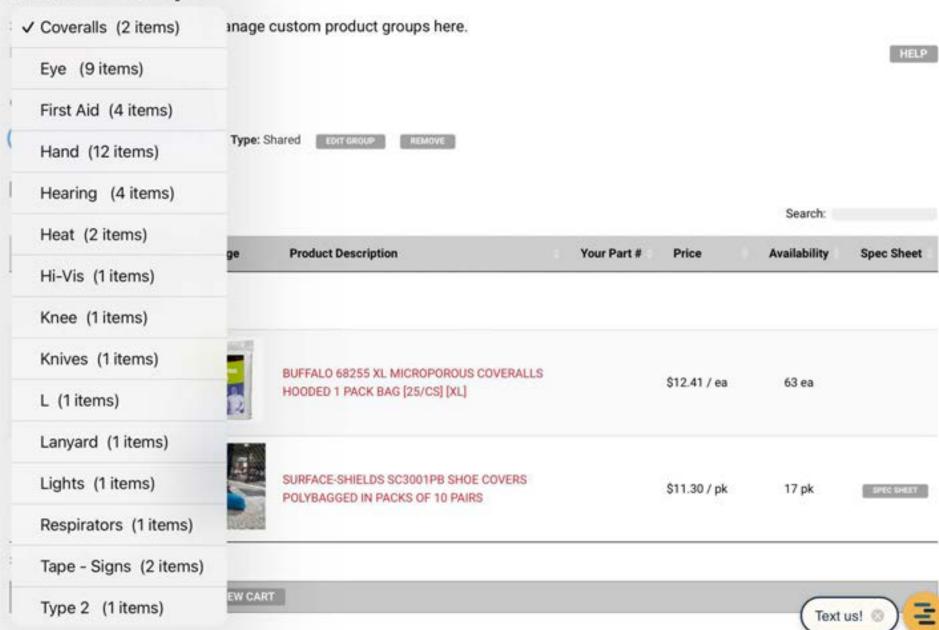


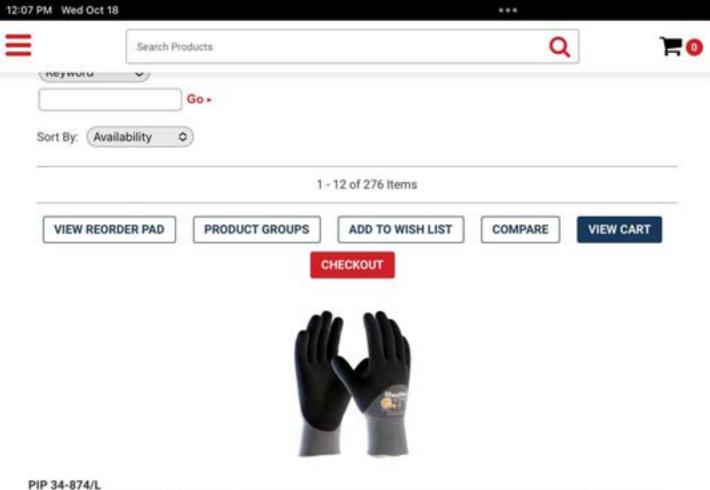




12:06 PM Wed Oct 18 \*\*\*

### **Product Groups**





PIP 34-874/L MAXIFLEX ULTIMATE GRAY SEAMLESS KNIT NYLON/ LYCRA SEAMLESS GLOVES WITH BLACK NITRILE MICRO-FOAM GRIP COATED PALM & FINGERS [12PR/PK] [144PR/CS] [LARGE]

ADD TO CART

Brand: PIP

List: \$6.75 \$5.30/pr Your Branch: 624 pr Availability: 4537 pr QTY

Compare



Keyword, Product ID, Brand





MY CART



SHOP BY CATEGORY ▼

SHOP BY BRAND ▼

SERVICES \*

DEALS

**RESOURCES** ▼

**COMPANY** ▼

Home > Services > Night Owl" Delivery

### Night Owl™ Delivery

#### Here's how it works:

- Acme provides you with a lockable gang box and delivers it to your job site or office.
- When you need supplies simply call in your order by 4:00 PM.
- Acmes Night Owl driver delivers the order and secures it in your gang box that only you and he have access to.
- · Your order is ready first thing in the morning.

Our customers have found that the convenience of having their orders delivered at night saves them time and money. The best part about Night Owl is that the service is free. If you would like to have a Night Owl box set up for your business or would like more information simply ask your Acme sales representative or call your local Acme store today.

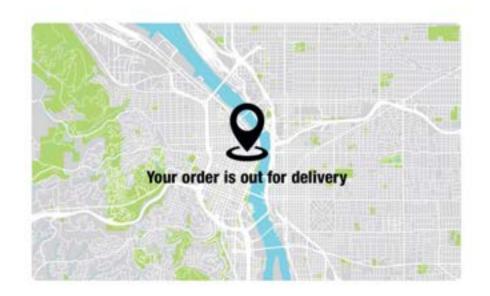
### Track My Truck

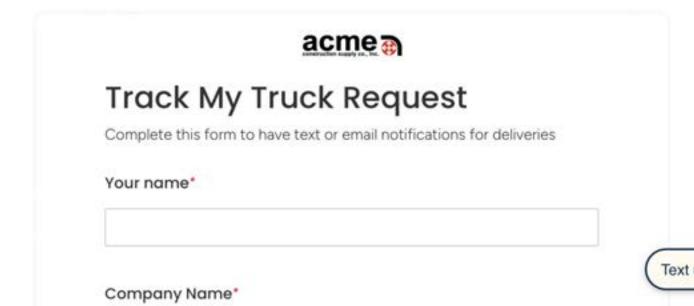
Acme customers can receive status notifications when products out for delivery with options for text and email notifications.

#### Learn More (PDF Download)

OR

Use the form below to get started.





### **Safety Training**



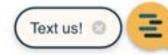
### Keeping up with rules and regulations of the industry can be a challenge.

From one-on-one consultations to full classroom opportunities for your entire crew, Acme helps keep your team educated.

October 18 - 19
Competent Person Training
Beaverton, Oregon

Sign Up







## 2024 Web 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:





## 2024 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!

ZERO INCIDENTS THROUGH COLLABORATION