

HOP Based Approach:

Leveraging Technology & Automation in the HSE Management System

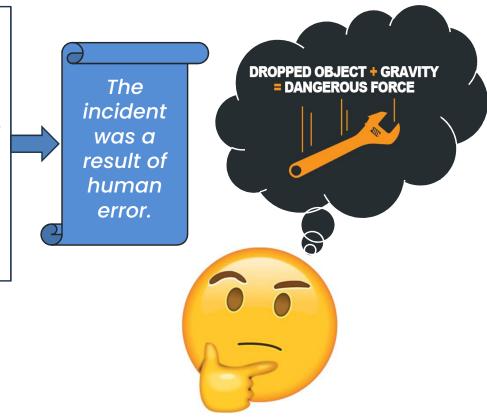
IBR/HASC Best Practices Seminar - June 2024



LEAK SEALERS HOP - Human & Organizational Performance

1. People make mistakes.

- Human error is normal. Design systems that can withstand errors!
- 2. Blame fixes nothing.
 - Common sense, yet it is still a common reaction to workplace incidents.
- 3. Context drives behavior.
 - Understand the circumstances (e.g. fatigue, production demands, broken equipment, etc.).
- 4. Learning and improving are vital.
 - Are we changing and evolving or repeating the same cycle?
- 5. How leaders respond to failure matters.
 - Do failures feel like an opportunity to improve vs. shakedown?





Our Journey - Simplifying Safety



Questions we asked:

1. How can we remove barriers and make things less complicated?



2. How can we make things easier to understand and do?



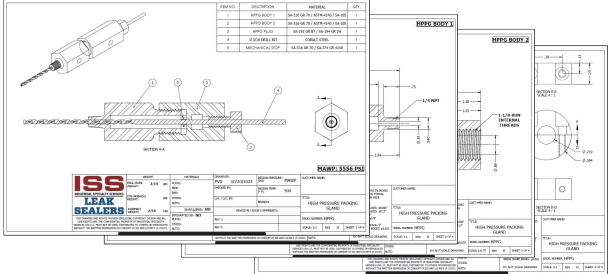
- 3. How can we make it easier to succeed and harder to fail?
- 4. What redundancies, engineering controls, etc. can we implement to allow us to "fail safely"?

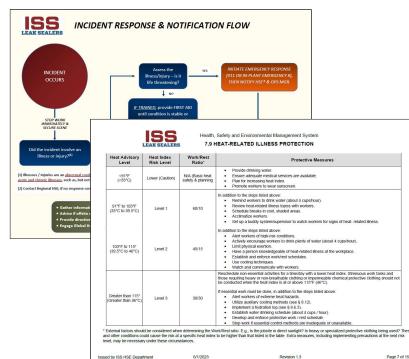


LEAK SEALERS Our Journey - Simplifying Safety

Actions we took.

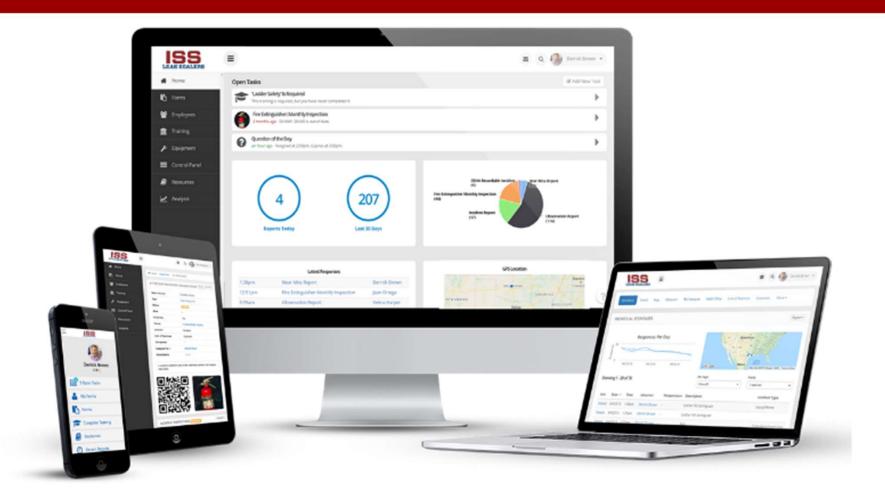
- Revising existing policies, removing unnecessary or redundant verbiage.
- Creating one-page flow charts & tables to provide visual reference.
- Redesigning equipment to eliminate failure.







ISS Taking it a step further...





HSE Management System

How can we leverage technology to automate our HSE Management System in a way that leads to...

- True centralization of all aspects of the HSE management system.
- Taking the HOP operating philosophy and implementing it from the back-office and then out to the front line.
- Reduced human error by automating process and subprocess relationships.
- Full integration at all levels of the organization.



LEAK SEALERS Not the system, but how we leverage it...

Lagging Indicators

- Incident Reports
 - >Near Misses
 - >Injuries/Illnesses
 - >Motor Vehicle Incidents
 - ≻Property Damage
 - >Environmental
 - >Other

Leading Indicators

- New Hire Mentoring
- Approved Drivers
- Training
- Auditing
- Equipment Inspections
- Vehicle Inspections
- Good Catches
- Acknowledgments
- Management of Change
- Trending Data



KSEALERS New Hire Mentoring

New Hires

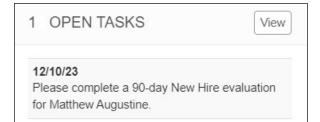
- New hire's profile is automatically created via a daily sync with ADP.
- Auto-flags new employee as SSE and assigns required training modules.
- At 90-day mark, task assignment is autogenerated in supervisors open task list.

Mentors

- Mentor module assigned to employees for mentor designation.
- Highlighted on profile and searchable by report.



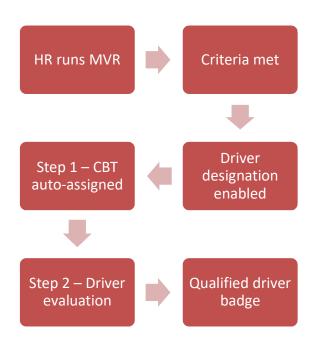






ISSQualified Drivers

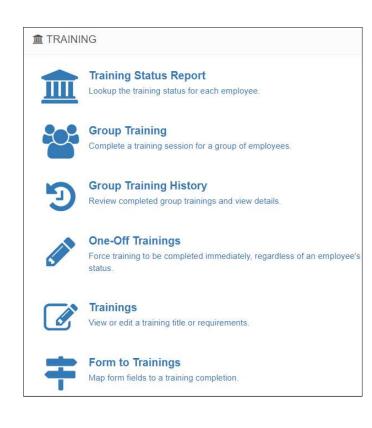
Workflow ensures all requirements are met:





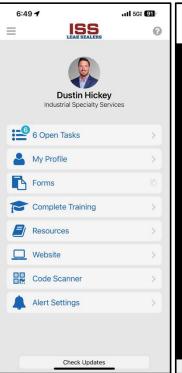


- 1. New hire onboarding
- 2. Driver training
- 3. Technician competency passports
- 4. Small tools training → CBT → Practical
- 5. Weekly Micro Training
 - Relevant, timely, consistent
 - Drip vs splash
 - Issued to employees 1x per week.
 - Short bursts of small, manageable pieces for better absorption & retention!



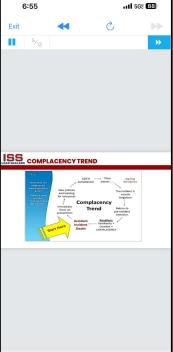


ISSWeekly Micro Training















LEAK SEALERS Incident Reporting

Employee Statements

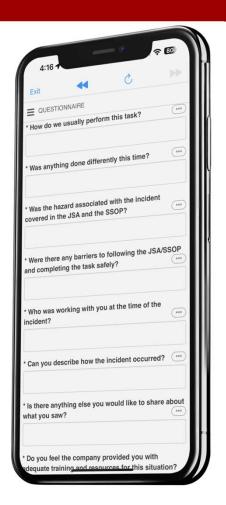
- Done via mobile app
- "Employee" vs. "witness"

The need for questions to guide the interview:

- Can you tell me about your work?
- How do <u>we</u> usually perform this task?
- Were there any barriers to performing...?

Seeking to understand.

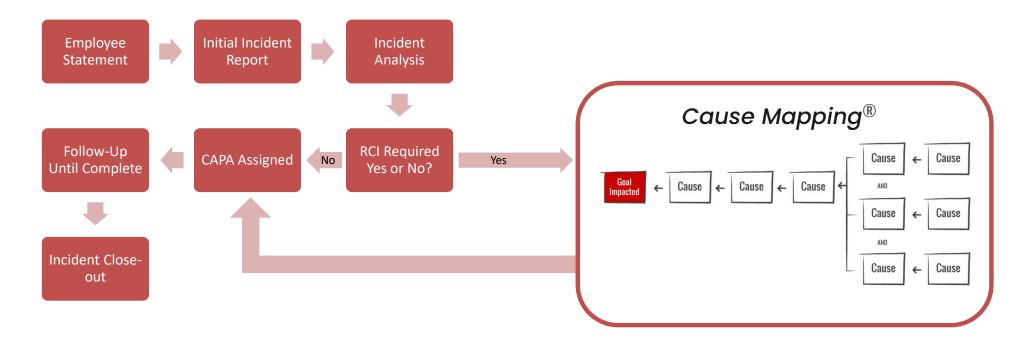
Focus is learning how it failed vs. what/who failed.





LEAK SEALERS Incident Reporting

Built-in workflow ensures things occur properly.

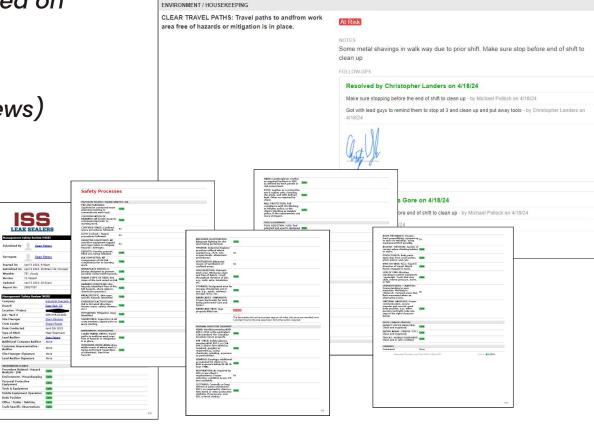




System logic for "scheduled tasks" autoassigns audits, by job position, based on policy requirement for frequency:

- Jobsite Audits (lx/week)
- Shop Audits (varies by location)
- MSRs (Management Safety Reviews)
 - Ops Managers
 - Branch Managers
 - HSE Managers
 - SME (Subject Matter Experts)
 - Vice Presidents
 - CEO/COO

CAPA functionality, tracking to closure.





EXECUTE SECULIFICATIONEXECUTE: Equipment Inspections



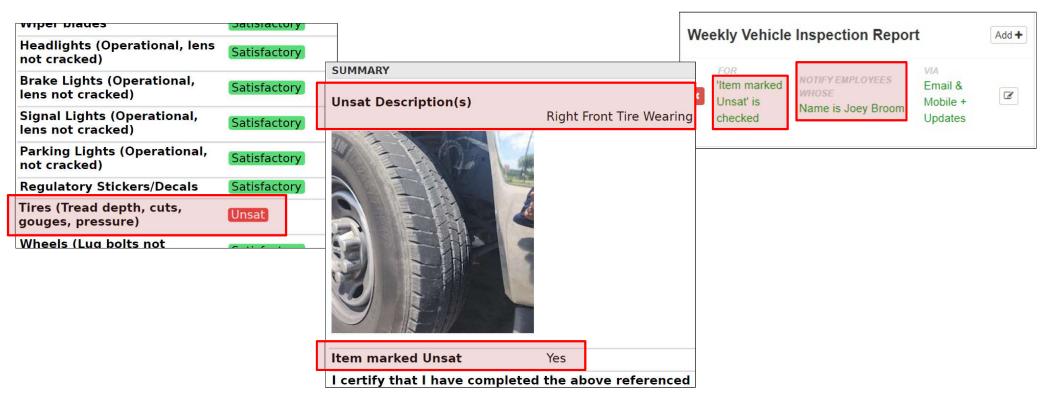


- Bright orange hang tag as visual reminder to perform inspection.
- QR code for quick accessibility.
- No need to find and print a hard copy of the form, complete it by hand, then scan and email for retention.
- Brings you straight to the inspection sheet in the mobile app.



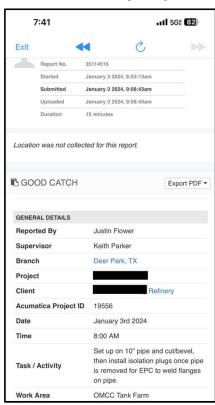
155 Vehicle Inspections

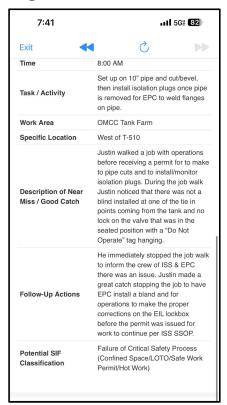
- Reporting ensures inspections are being completed.
- Any deficiency triggers auto-notification to company's fleet manager.





- Ease of use in reporting.
- Tied to employee recognition & incentive.



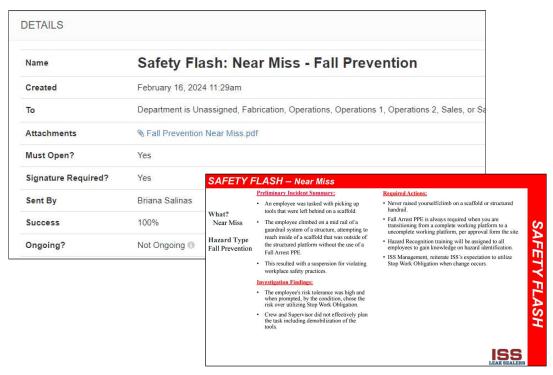






LEAK SEALERS Acknowledgments

Safety flashes, company memos, important announcements. Ensure acknowledgment, even during absences.







ISSLEAK SEALERS Management of Change



Industrial Specialty Services Deer Park, TX 77536

Date: 12/4/2023

To: Operations/HSE

During a safety issue investigation ISS discovered that our Hot SSOP's was not clearly defined for the operation of the Nut Runner per the manufacture's recommendations.

5.5: A Filter, Regulator, & Lubricator unit (e.g., 'Air Caddy TM') is to be used with regulator & gauge to make sure the correct psi is flowing through the nut runner. Maximum of 90 psi. ISS To supply

8.20 Attach the drive motor and the air supply. The drive motor must not exceed the maximum air pressure of 90 psi as per the manufacturer's recommendation. A lower air pressure is acceptable if the operation of the drive motor is not compromised. Make sure the nut runner trigger button/handle is configured to face up or down.

8.20.1 Caution: Keep body stance balanced and firm. Do not overreach when operating this tool. Anticipate and be alert for sudden changes in motion, for reaction torques, or forces during start up and operation. The operator should change posture during extended tasks, which can help avoid discomfort

ISS_SSOP_LS007 have been revised as well

With the same wording as above.

Please make sure that all Hot tap techs have the correct equipment for making these hot taps:

- Trigger configuration on Nut Runner is installed in the correct position.

Sam Ellis

Global VP/SME Hot tap and Line stop

258 Sent 25	7 Acknowledged 1 Not Acknowledged
DETAILS	
Name	Revisions to SSOPs for Nut Runner Operations
Created	December 4, 2023 8:59am
Attachments	% Revised SSOPs for Nut Runner Operations.pdf
Must Open?	Yes
Signature Required?	Yes
Sent By	Dustin Hickey



ISS KPIs - Reporting & Trending

- Auto-recurring reports to identify what's been done vs not done.
- Track and trend lagging indicator performance.
- Track and trend leading indicator activities.
- Advanced filtering



QUESTIONS



SAFE. SMART. RELIABLE.