

JOB SAFETY ANALYSIS AND THE 6T'S: HOW TO BETTER RECOGNIZE HEALTH AND SAFETY HAZARDS IN THE WORKPLACE

2016 WEDA Midwest Chapter Meeting

Ashley A. Roznowski



GLDD FLEET

5 MECHANICAL



DREDGE 55

19 HYDRUALIC

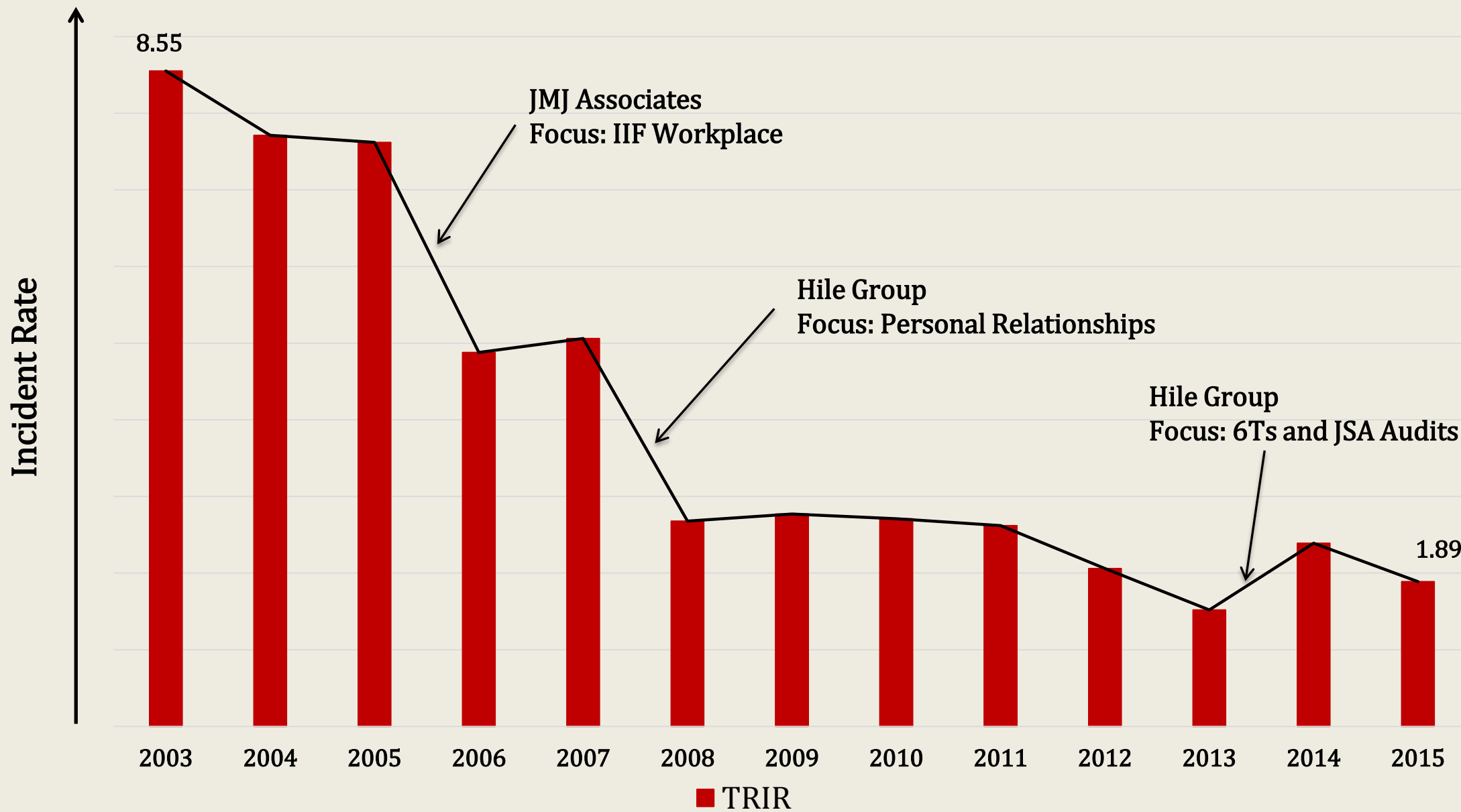


DREDGE TEXAS

7 HOPPER



LIBERTY ISLAND




JOB SAFETY ANALYSIS

A safety tool used to identify all known and potential hazards associated with each step of a task












[illegible]

Somewhere
after the 1st
JSA

 JOB SAFETY ANALYSIS	JOB TITLE:	PAGE: 1 OF 1	JSA NO.: S 0001 REV: 0 Written By:
	LOCATION of JOB	Tools to Be Used: <input type="checkbox"/> Rigging <input type="checkbox"/> Electrical Tools <input type="checkbox"/> Torches <input type="checkbox"/> Air Tools <input type="checkbox"/> Hand tools <input type="checkbox"/> Welding <input type="checkbox"/> Hyd. Tools <input checked="" type="checkbox"/> Other	
		Cover tool safety and inspection in JSA briefing	
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT: <input checked="" type="checkbox"/> Hardhat <input type="checkbox"/> Personal Floatation Device <input checked="" type="checkbox"/> Safety Glasses <input checked="" type="checkbox"/> Steel Toed Boots <input type="checkbox"/> Gloves Type Leather <input type="checkbox"/> Hearing Protection <input type="checkbox"/> High visibility vest <input type="checkbox"/> Other:			JSA REVIEWED BY: Supervisor's Signature
MAJOR JOB STEPS	POTENTIAL HAZARDS & CONSEQUENCES	RECOMMENDATIONS TO ELIMINATE OR REDUCE HAZARDS	
TODAY:			
TASK:			
TOOLS:			
TIDY UP:			
TRANSITION:			
TIME OUT:			
ALL WORK MUST STOP IF YOU DEVIATE FROM THE JSA PLAN			



JSAs Today












	JOB SAFETY ANALYSIS		NO:		DATE:		PROJECT NO:		Name and Signature of all personnel performing task to sign JSA prior to executing job task	
	JOB TITLE							PAGE __ of __		
DEVELOPED BY:	1. 3.	2. 4.	APPROVED BY:	NAME	SIGNATURE	POSITION				
NOTE	1. Deviations to this JSA are not authorized. All work must STOP prior to the need to deviate from this JSA. 2. All required changes to this JSA must be noted on the JSA sign-in sheet and reviewed with all participants prior to resuming work. 3. If an individual feels that conditions become unsafe, they shall "Step Back for Safety" and call a "Time Out". 4. If a "Time-Out" is called, all work must stop until all hazards are satisfactorily addressed, the JSA is reviewed again, and changes are noted on the JSA sign-in sheet. 5. Make sure the employee is authorized and qualified to use the work tools. 6. Make sure to reference the SALT book before beginning your task – SALT Reference Number: _____							1		
	REQUIRED PERSONAL PROTECTIVE EQUIPMENT <input type="checkbox"/> GLOVES <input type="checkbox"/> WELDING SHIELD <input type="checkbox"/> SAFETY HARNESS <input type="checkbox"/> PERSONAL FLOTATION DEVICES (PFD) <input type="checkbox"/> HEARING PROTECTION <input type="checkbox"/> FALL PROTECTION <input type="checkbox"/> FULL FACE SHIELD <input type="checkbox"/> FALL RESISTANT LANYARD HARD <input type="checkbox"/> HAT/SAFETY GLASSES/STEEL TOE BOOTS							2		
								3		
								4		
REQUIRED TOOL(S)								5		
								6		
AUTHORIZED & QUALIFIED PERSON								7		
								8		
6 T's	<input type="checkbox"/> TODAY <input type="checkbox"/> TASK <input type="checkbox"/> TOOLS <input type="checkbox"/> TIDY-UP <input type="checkbox"/> TIME-OUT <input type="checkbox"/> TRANSITION							9		
								10		
HIGH RISK ACTIVITIES	<input type="checkbox"/> Vessel to Vessel Transfer	<input type="checkbox"/> Confined Space Entry	<input type="checkbox"/> Work on Pressurized Systems	<input type="checkbox"/> Hot Work	<input type="checkbox"/> Crane Operations/Rigging	<input type="checkbox"/> Work at Heights	<input type="checkbox"/> Man Basket	<input type="checkbox"/> Energized Electrical Work	<input type="checkbox"/> LOTO	
MAJOR JOB STEPS			POTENTIAL HAZARDS		POTENTIAL CONSEQUENCES		RECOMMENDATIONS TO ELIMINATE OR REDUCE HAZARDS			
REPORT JOB COMPLETE TO APPROPRIATE SUPERVISOR :								DATE COMPLETED :		
LIFE SAVING ABSOLUTES CHECKLIST	<input type="checkbox"/>  DRUG & ALCOHOL FREE WORKPLACE	<input type="checkbox"/>  PPE	<input type="checkbox"/>  PROPER TOOLS	<input type="checkbox"/>  LOCK OUT / TAG OUT	<input type="checkbox"/>  LINES / LINE HANDLING	<input type="checkbox"/>  SAFETY ZONE	<input type="checkbox"/>  TRANSFERS	<input type="checkbox"/>  RIGGING & LIFTING	<input type="checkbox"/>  CONFINED SPACE	<input type="checkbox"/>  PUBLIC & ENVIRONMENT














CONTINUED IMPROVEMENT OF THE JSA

- INVESTIGATING EVERY INCIDENT FOR ROOT CAUSES
- GATHERING FEEDBACK FROM USERS
- JSA AUDITS
- 6Ts
- LIFE SAVING ABSOLUTES (LSAs)



 JOB SAFETY ANALYSIS		NO:	DATE:		PROJECT NO:		<i>Name and Signature of all personnel performing task to sign ISA prior to executing job task</i>				
JOB TITLE						PAGE __ of __					
DEVELOPED BY:		1.	2.	APPROVED BY:		NAME	SIGNATURE	POSITION	1		
		3.	4.						2		
NOTE 1. Deviations to this JSA are not authorized. All work must STOP prior to the need to deviate from this JSA. 2. All required changes to this JSA must be noted on the JSA sign-in sheet and reviewed with all participants prior to resuming work. 3. If an individual feels that conditions become unsafe, they shall "Step Back for Safety" and call a "Time Out". 4. If a "Time-Out" is called, all work must stop until all hazards are satisfactorily addressed, the JSA is reviewed again, and changes are noted on the JSA sign-in sheet. 5. Make sure the employee is authorized and qualified to use the work tools. 6. Make sure to reference the SALT book before beginning your task – SALT Reference Number: _____									3		
									4		
									5		
									6		
REQUIRED PERSONAL PROTECTIVE EQUIPMENT		<input type="checkbox"/> GLOVES <input type="checkbox"/> HEARING PROTECTION <input type="checkbox"/> HAT/SAFETY GLASSES/STEEL TOE BOOTS	<input type="checkbox"/> WELDING SHIELD <input type="checkbox"/> FALL PROTECTION	<input type="checkbox"/> SAFETY HARNESS <input type="checkbox"/> FULL FACE SHIELD	<input type="checkbox"/> PERSONAL FLOTATION DEVICES (PFD) <input type="checkbox"/> FALL RESISTANT LANYARD HARD			7			
REQUIRED TOOL(S)								8			
AUTHORIZED & QUALIFIED PERSON								9			
6 T's		<input type="checkbox"/> TODAY <input type="checkbox"/> TASK <input type="checkbox"/> TOOLS <input type="checkbox"/> TIDY-UP <input type="checkbox"/> TIME-OUT <input type="checkbox"/> TRANSITION							10		
HIGH RISK ACTIVITIES		<input type="checkbox"/> Vessel to Vessel Transfer <input type="checkbox"/> Confined Space Entry	<input type="checkbox"/> Work on Pressurized Systems <input type="checkbox"/> Hot Work	<input type="checkbox"/> Crane Operations/Rigging <input type="checkbox"/> Work at Heights	<input type="checkbox"/> Man Basket <input type="checkbox"/> Energized Electrical Work	<input type="checkbox"/> LOTO					
MAJOR JOB STEPS			POTENTIAL HAZARDS		POTENTIAL CONSEQUENCES		RECOMMENDATIONS TO ELIMINATE OR REDUCE HAZARDS				
REPORT JOB COMPLETE TO APPROPRIATE SUPERVISOR :								DATE COMPLETED :			
LIFE SAVING ABSOLUTES CHECKLIST		<input type="checkbox"/>  DRUG & ALCOHOL FREE WORKPLACE	<input type="checkbox"/>  PPE	<input type="checkbox"/>  PROPER TOOLS	<input type="checkbox"/>  LOCK OUT / TAG OUT	<input type="checkbox"/>  LINES / LINE HANDLING	<input type="checkbox"/>  SAFETY ZONE	<input type="checkbox"/>  TRANSFERS	<input type="checkbox"/>  RIGGING & LIFTING	<input type="checkbox"/>  CONFINED SPACE	<input type="checkbox"/>  PUBLIC & ENVIRONMENT



		JOB SAFETY ANALYSIS		NO:	DATE:	PROJECT NO:	PAGE		Name and Signature of all personnel performing task to sign JSA prior to executing job task.	
JOB TITLE		DEVELOPED BY:		REVIEWED BY		POSITION				
Pulling Pin Back Into Carriage		1. Jack Kelley 2. Kamy Pierce		Jack Kelley		moss				
WARNING 1. Deviations to this JSA are not authorized. All work must STOP prior to the need to deviate from this JSA. 2. All required changes to this JSA must be noted on the JSA sign-in sheet and reviewed with all participants prior to resuming work. 3. If an individual feels that conditions become unsafe, they shall "Step Back for Safety" and call a "Time Out". 4. If a "Time-Out" is called, all work must stop until all hazards are satisfactorily addressed, the JSA is reviewed again, and changes are noted on the JSA sign-in sheet. 5. Make sure to consult your SALT Book for beginning your task. 6. Make sure the employee is authorized and qualified to use the work tools.										
REQUIRED PERSONAL PROTECTIVE EQUIPMENT <input checked="" type="checkbox"/> GLOVE CHART <input type="checkbox"/> HEARING PROTECTION <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Classic 9 Headset		<input type="checkbox"/> WELDING SHIELD <input type="checkbox"/> FALL PROTECTION <input type="checkbox"/> SAFETY HARNESS <input type="checkbox"/> FULL FACE SHIELD <input type="checkbox"/> PERSONAL FLOTATION DEVICE (PFD) <input type="checkbox"/> FALL RESISTANT LANYARD								
REQUIRED TOOL Porta Power Pry Bar Strong Back Grease All Thread rags Impact gun sockets Airline										
REQUIRED HAZMAT										
6 T's <input checked="" type="checkbox"/> TODAY <input type="checkbox"/> TASK <input checked="" type="checkbox"/> TOOLS <input type="checkbox"/> TIDY-UP <input checked="" type="checkbox"/> TIME-OUT <input type="checkbox"/> TRANSITION										
HIGH RISK ACTIVITIES <input type="checkbox"/> Vessel to Vessel Transfer <input type="checkbox"/> Confined Space Entry <input type="checkbox"/> Work on Pressurized Systems <input type="checkbox"/> Hot Work <input type="checkbox"/> Crane Operations/Rigging <input type="checkbox"/> Work at Heights <input type="checkbox"/> Man Basket <input type="checkbox"/> Energized Electrical Work <input type="checkbox"/> LOTO										
MAJOR JOB STEPS Sunny and chilly Greasing Hole, Install All-Thread Then Strong Back, Hook up Porta Power, Then Begin pulling Pin Back In Place. Once pins are In place Install cover Plates. Remove safety safety Plate's from carriage. clean and store all tools, anyone can call a Time out at anytime.		POTENTIAL HAZARDS & CONSEQUENCES Pinch points Installing covers and Removing safety Plates Tripping hazards around Access. to pin pad eye material pile, cables for blocks. Dehydration Make even though its cold. sometimes people forget to drink water when its cold		RECOMMENDATIONS TO ELIMINATE OR REDUCE HAZARDS watch placement, Take your Time wear proper glove's. watch foot placement, Be careful stepping over material piles. Ref. hand Tools p28 deck Book						
REPORT JOB COMPLETE TO APPROPRIATE SUPERVISOR:								DATE COMPLETED: 12/8/15		
LIFE SAVING ABSOLUTES CHECKLIST		<input checked="" type="checkbox"/>  DRUG & ALCOHOL FREE WORKPLACE		<input checked="" type="checkbox"/>  PPE		<input checked="" type="checkbox"/>  PROPER TOOLS		<input type="checkbox"/>  LOCK OUT / TAG OUT		
		<input type="checkbox"/>  LINES / LINE HANDLING		<input type="checkbox"/>  SAFETY ZONE		<input type="checkbox"/>  TRANSFERS		<input type="checkbox"/>  RIGGING & LIFTING		
		<input type="checkbox"/>  CONFINED SPACE		<input type="checkbox"/>  PUBLIC & ENVIRONMENT						



HAZARD CONTROL & RECOGNITION: The 6Ts

Today
Task
Tools
Tidy Up
Transition
Time Out



HAZARD CONTROLS

→ Engineering Controls

→ Machine guards, enclosed cab, etc.

→ Administrative Controls

→ Alarms, signs, training, etc.

→ Personal Protective Equipment

→ Hard hat, respirator, etc.



HAZARD RECOGNITION: The 6Ts

- Beyond writing down task steps
- Employee recognition of factors/areas that could lead to hazards
- Slows down the task assessment portion of JSA



TODAY

- Meet at the task area to review JSA and ensure specific hazard awareness of the task area is known
- Inspect access ways to and from all of the work areas, including transferring to and from equipment
- Consider the environmental aspects of the day
 - Wind, temperature, seas, deck conditions, etc.





TASK

- Ensure each crewmember involved knows his/her role in the task
- Recognize and analyze each task step, be specific
- Establish lines of communication, and address how they will flow throughout the task
- Discuss how deviations from the JSA will be handled

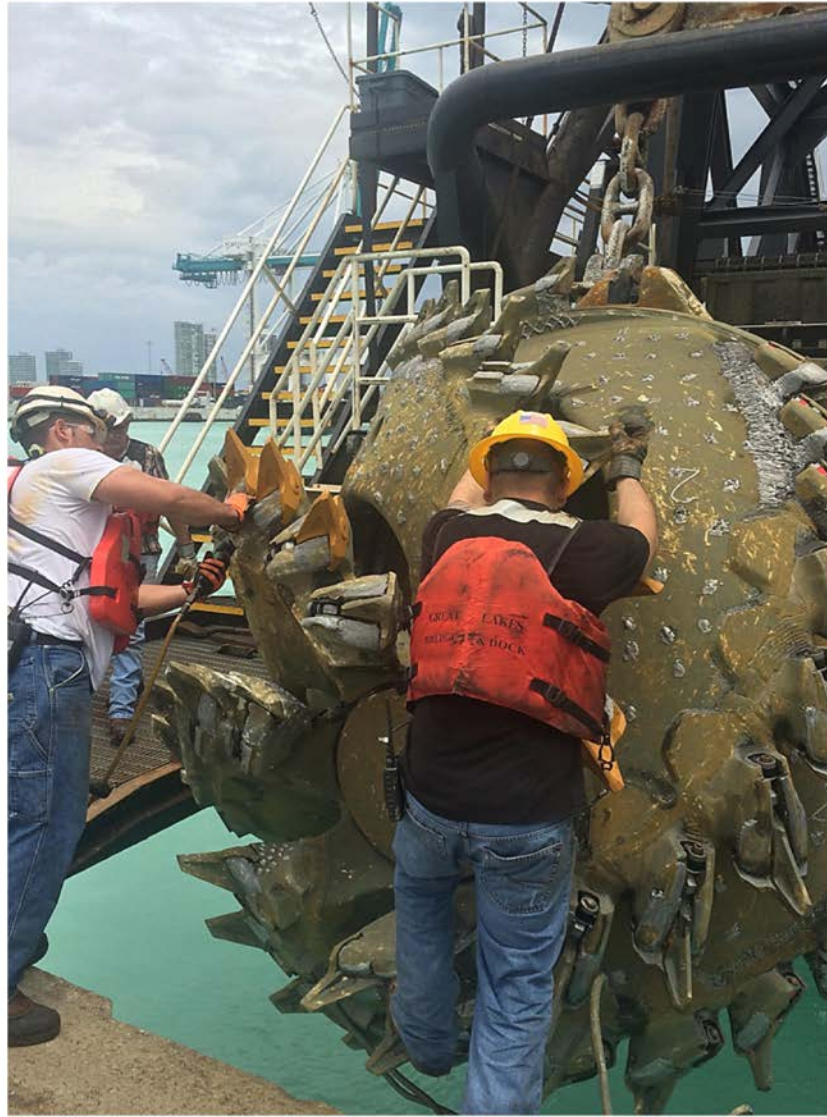




TOOLS

- Identify, gather, and inspect the tools required for each step of the task
- Ensure crew members are authorized and qualified to use the tools or equipment needed for the task
- Identify, gather and inspect required PPE





TIDY UP

→ Clean up after the task

→ Properly stow all tools and equipment used during the task





TRANSITION

- Recognize the end of the task in the JSA
- Identify the next task and its JSA if applicable





TIME OUT

→ Designate a Time Out Area

Why call a Time Out?

→ Change in conditions

→ Change in crew members participating

→ Change in tools

→ Anyone recognizes unsafe condition or feels unsafe





WE'RE COMMITTED.
To Safety Without Compromise!



“All GLDD employees
are committed to an
Incident and Injury Free
work environment,
in which we return
safely to our families”

GLDD SAFETY
COMMITMENT
STATEMENT