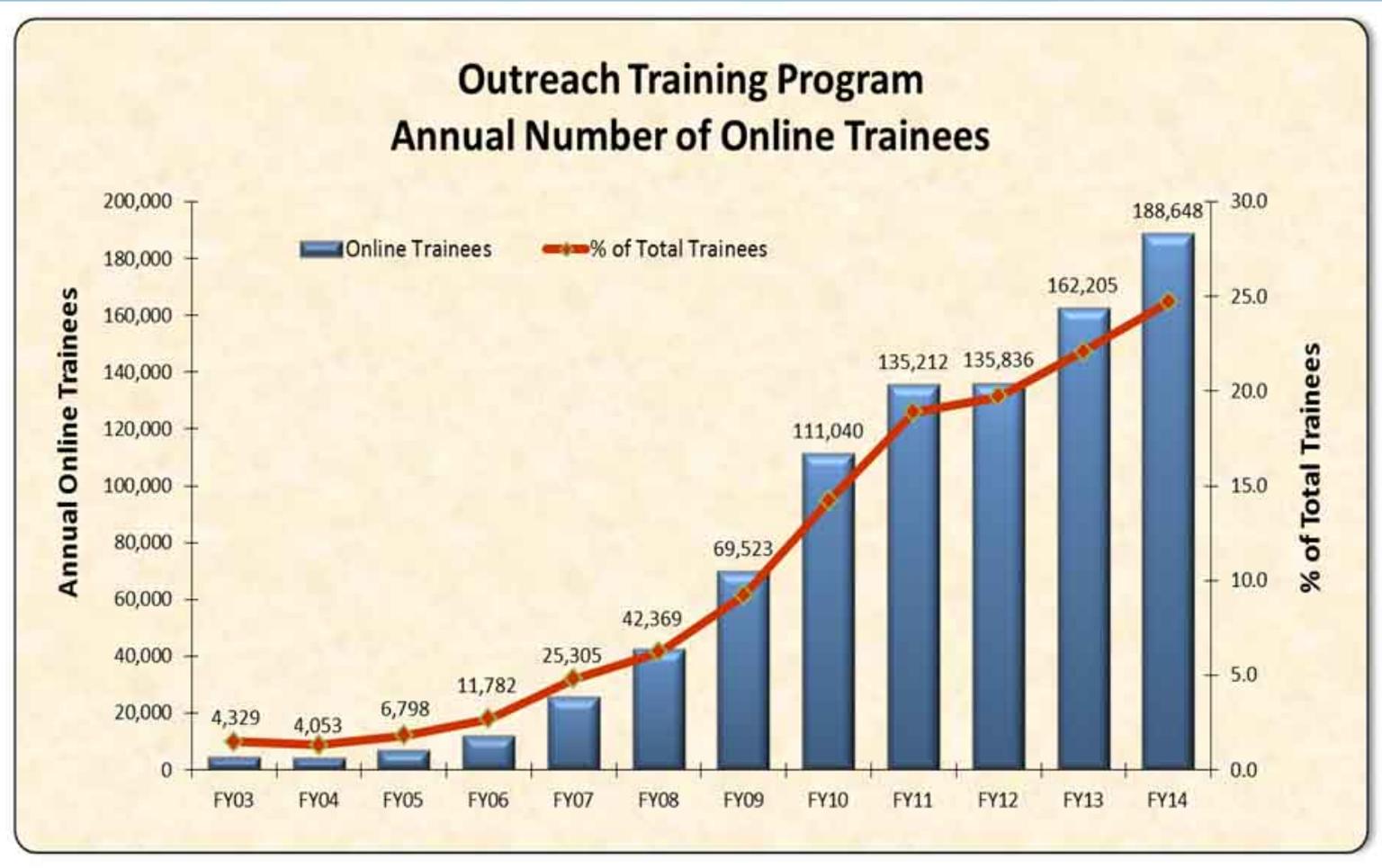




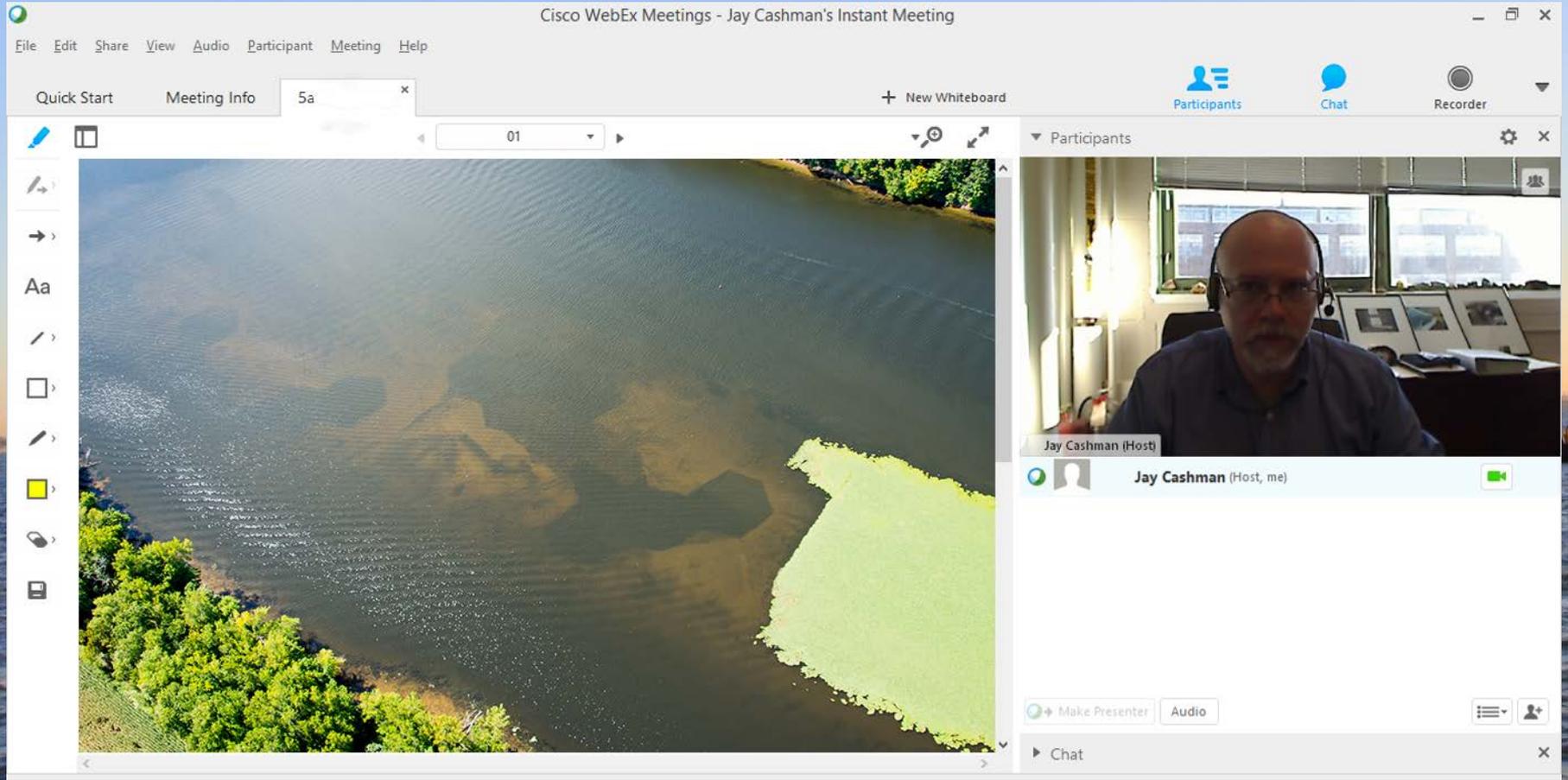
# Enhancing Safety and Health Programs with Technology and Mobile Applications

# Training



Source – OSHA Website: [www.osha.gov/dte/outreach/outreach\\_growth.html](http://www.osha.gov/dte/outreach/outreach_growth.html)

# Training



# New Hire Orientation



# MSDS – SDS



Effective Completion Date	Requirement(s)	Who
December 1, 2013	Train employees on the new label elements and safety data sheet (SDS) format.	Employers
June 1, 2015 December 1, 2015	Compliance with all modified provisions of this final rule, except: The Distributor shall no ship containers labeled by the chemical manufacturer or importer unless it is a GHS label	Chemical manufacturers, importers, distributors and employers
June 1, 2016	Update alternative workplace labeling and hazard communication program as necessary, and provide additional employee training for newly identified physical or health hazards.	Employers



# Inspections and Data

## FIRE PROTECTION AND PREVENTION

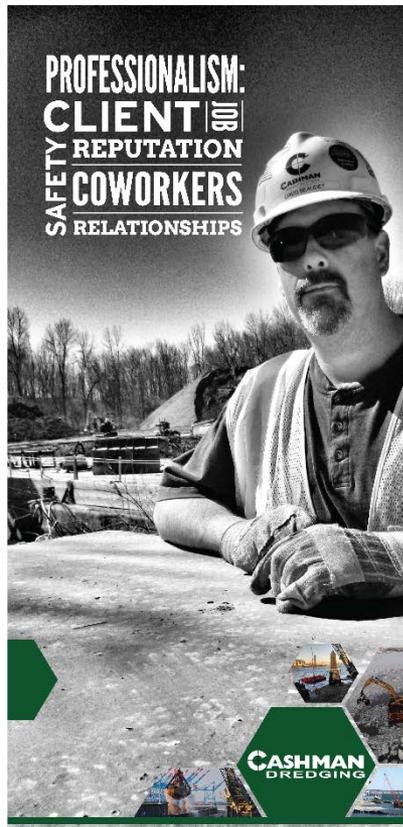
CASHMAN

Inspection Items	Compliant		Corrected	
<b>Fire Protection</b>				
1. Do you have a fire protection program for all phases of construction or demolition work?	Yes	No	N/A	
2. Is access to all available firefighting equipment maintained at all times?	Yes	No	N/A	
3. Is firefighting equipment you provide conspicuously located?	Yes	No	N/A	
4. Is firefighting equipment periodically inspected and if defective immediately replaced?	Yes	No	N/A	
5. Is a fire extinguisher, rated not less than 2A, provided for each 3,000 sq. ft. of the protected building area, or major fraction thereof?	Yes	No	N/A	
6. Does travel distance from any point of the protected area to the nearest fire extinguisher not exceed 100 ft?	Yes	No	N/A	
7. Is there at least one fire extinguisher, rated not less than 2A, provided on each floor?	Yes	No	N/A	
8. Is there at least one fire extinguisher located adjacent to stairways on each floor of a multistory building?	Yes	No	N/A	
9. Is a fire extinguisher, rated not less than 10B, provided within 50 ft. of wherever more than 5 gal. of flammable or combustible liquids or 5 lbs. of flammable gas is being used on the jobsite?	Yes	No	N/A	
10. Do you prohibit the use of carbon tetrachloride or other toxic vaporizing liquid fire extinguishers?	Yes	No	N/A	
11. Are portable fire extinguishers inspected periodically and maintained in accordance with maintenance and use of portable fire extinguishers, NFPA No. 10A-1970?	Yes	No	N/A	
12. Do you have an alarm system whereby the local fire department can be alerted for emergencies?	Yes	No	N/A	
13. Do you have an alarm system whereby employees on the site can be alerted for emergencies?	Yes	No	N/A	
14. Is the alarm code or reporting instructions posted at phones or at employee entrances?	Yes	No	N/A	
<b>Fire Prevention - Construction</b>				
15. Is smoking prohibited at or in the vicinity of operations which constitute a fire hazard, and is "No Smoking or Open Flame" conspicuously posted?	Yes	No	N/A	
16. Is portable fire extinguishing equipment, suitable for the fire hazards involved, provided at convenient conspicuously accessible locations in the yard area?	Yes	No	N/A	
17. Are portable fire extinguishers, rated not less than 2A, placed so that maximum travel distance to the nearest unit does not exceed 100 feet?	Yes	No	N/A	
18. Do you ensure that indoor storage does not obstruct or adversely affect the means of exit?	Yes	No	N/A	
<b>Fire Protection: Flammable and Combustible Liquids - Construction</b>				
19. Do you use approved containers and portable tanks for the storage and handling of flammable and combustible liquids?	Yes	No	N/A	
20. Do you make certain flammable or combustible liquids are not stored in areas normally used for the safe passage of people?	Yes	No	N/A	
21. Are portable outdoor storage tanks for flammable / combustible liquids at least 20 ft. from buildings?	Yes	No	N/A	
22. Are outdoor storage areas for flammable or combustible liquids kept free of combustible materials not necessary to the storage?	Yes	No	N/A	
23. Is a portable fire extinguisher having a rating of not less than 20-B units located between 25 ft. and 75 ft. from flammable liquid storage areas located outside?	Yes	No	N/A	
24. Is at least one portable fire extinguisher rated not less than 20-B-C units provided on all vehicles used for transporting and / or dispensing flammable or combustible liquids?	Yes	No	N/A	
25. Is the transfer of flammable liquids from one container to another done only when the containers are electrically interconnected (bonded)?	Yes	No	N/A	
26. Are flammable liquids kept in closed containers when not actually in use?	Yes	No	N/A	
27. Are conspicuous / legible signs prohibiting smoking posted in service and refueling areas?	Yes	No	N/A	
28. Is each service or refueling area provided with at least one fire extinguisher having a rating of not less than 20-B-C?	Yes	No	N/A	

## DAILY CRANE & HEAVY EQUIPMENT INSPECTION

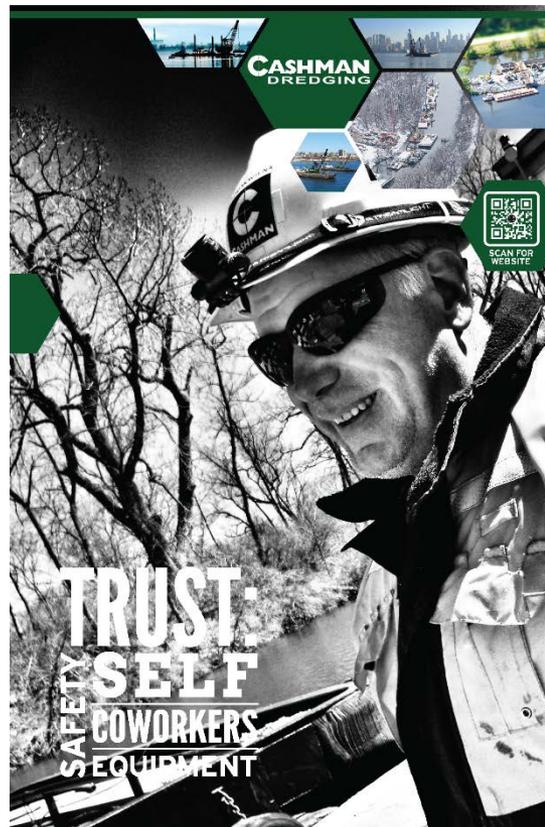
MAKE / MODEL:	DATE AND TIME	SHIFT (1ST, 2ND, 3RD):		
ASSET #:	OPERATOR (PRINT):	SUPERVISOR (PRINT):		
METER HOURS:	OPERATOR (SIGNATURE):	SUPERVISOR (SIGNATURE):		
<b>CRITICAL INSPECTION ITEMS</b>				
1. WIRE ROPE EVIDENCE OF DISTORTION / SIGNIFICANT CORROSION	S	US	NA	NOTES
2. WIRE ROPE ELECTRICAL DAMAGE				
3. WIRE ROPE END CONNECTIONS - APPLIED CORRECTLY				
4. WIRE ROPE END CONNECTIONS - CORRODED, CRACKED, BENT, WORN				
5. WIRE ROPE - 6 RANDOMLY DISTRIBUTED BROKEN WIRES IN 1 ROPE LAY OR 3 BROKEN WIRES IN 1 STRAND IN 1 ROPE LAY, WHERE AT LEAST THE LENGTH OF ONE OF THE WIRES IN WHICH IT IS BOUND MAKES A COMPLETE TURN AROUND THE ROPE.				
6. ROTATIONAL RESIST. ROPE - 2 RANDOMLY DISTRIBUTED BROKEN WIRES IN 6 ROPE DIAMETERS OR 4 RANDOMLY DISTRIBUTED BROKEN WIRES IN 30 ROPE DIAMETERS				
7. SWAYLES, SHEAVES, DRUMS, RIGGING				
8. PENDANT CABLES OR STRAPS				
9. BOOM PAWL, HOIST PAWL				
10. BOOM AND HOIST CLUTCHES AND BRAKES				
11. BOOM HOIST LIMITED DEVICE / SWITCHES				
12. BOOM ANGLE INDICATOR				
13. BOOM STOPS				
14. HYDRAULIC - FULL EXTENSION / RETRACTION				
15. ANTI-TWO BLOCK DEVICES				
16. LOAD MOMENT INDICATOR / LOAD CELL				
17. CAUTION / WARNING LIGHTS				
18. LOAD CHARTS IN CAB				
19. WARNING SIGNS - SWING / HI VOLTS / BARRIERS				
20. CONTROLS CLEARLY MARKED				
21. GUARDING EXPOSED MOVING PARTS				
22. SWING LOCKS AND BRAKES				
23. SAFETY DEVICES - LIMIT SWITCHES, LOCKS				
24. ELECTRICAL APPARATUS				
<b>MAINTENANCE INSPECTION ITEMS</b>				
25. BEARING, ROLLERS, TURN TABLE	S	US	NA	NOTES
26. ANNUAL INSPECTION CURRENT, HAND SIGNAL CHART POSTED, LOG BOOK				
27. TRACKS, TRACK GUARD, SPROCKETS, TIRES				
28. WINDOWS / SAFETY GLASS FREE FROM CRACKS WHICH HINDER VIEW				
29. WINDSHIELD WIPERS, MIRRORS				
30. LIGHTS - HEAD / TAIL / TURN / FLOOD				
31. FUEL GAUGE / CAP PLACEMENT				
32. GAUGES / WARNING LIGHTS				
33. BATTERIES				
34. DRIVE UNIT				
35. SEAT / SEAT BELT				
36. SERVICE / PARKING BRAKE				
37. HORN / TRAVEL AND BACKUP ALARM				
38. BUCKET / TEETH / SHANKS, CUTTING EDGE				
39. FIRE EXTINGUISHER / INSPECTION DATE				
40. GUARDRAILS, HANDRAILS, STEPS				
41. BOOM, STICK, JIB, BOOM LAGINGS				
42. BOOM LENGTH INDICATOR				
43. JIB ANGLE INDICATOR				
44. COUNTERWEIGHT				
45. OUTRIGGER WORK AND EXTENDED PROPERLY				
46. BLOCKS, BALLS, HOOKS, AND LATCHES				
47. EXHAUST SYSTEM				
48. BELTS AND HOLES				
49. HYDRAULIC HOSES AND PUMPS				
50. LUBRICATION - AIR, OIL, HYDRAULIC, COOLANT / ANTI-ROLLZ, FULL				
51. LUBRICATION - GREASE SYSTEM WORKING PROPERLY, ALL FITTINGS TAKE GREASE				
52. ENGINE OIL LEVEL, HYDRAULIC OIL LEVEL				
53. TRANSMISSION FLUID LEVEL, COOLANT / ANTIFREEZE LEVEL				
54. GROUND CONDITIONS FIRM, GRADED / LEVEL, DRAINED				
55. OUTRIGGER PADS / CRANE MATS SUFFICIENT				
56. CRANE SECURED TO BARGE				
S = SATISFACTORY      US = UNSATISFACTORY      NA = NOT APPLICABLE				
COMMENTS				
<small>OPERATOR MUST TURN IN DAILY CRANE INSPECTION TO SUPERVISOR BEFORE OPERATING EQUIPMENT SUPERVISOR SHALL SEND EMAIL TO MAINTENANCE DEPARTMENT WITHIN FIRST HOUR OF SHIFT. SUPERVISOR SHALL MAINTAIN COPY IN PROJECT FILES.</small>				

# The Human Factor – Safety Culture



**PROFESSIONALISM:**  
CLIENT  
REPUTATION  
SAFETY  
COWORKERS  
RELATIONSHIPS

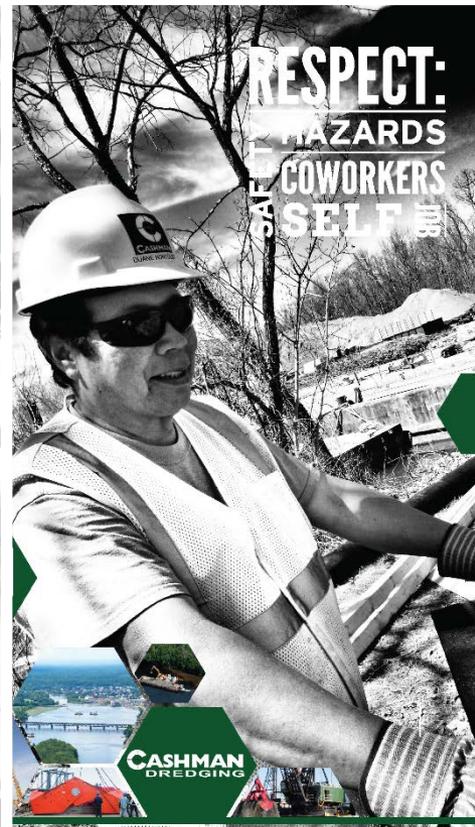
**CASHMAN DREDGING**



**TRUST:**  
SELF  
COWORKERS  
EQUIPMENT

**CASHMAN DREDGING**

SCAN FOR WEBSITE



**RESPECT:**  
HAZARDS  
COWORKERS  
SELF

**CASHMAN DREDGING**



**QUALITY:**  
REPUTATION  
SAFETY  
WORKMANSHIP  
TASK  
INNOVATION

**CASHMAN DREDGING**

# New Technology



# App Discussion



**MSDSonline**<sup>®</sup>  
EH&S Compliance Made Simple

Pad 10 4:35 PM 81% BQ

**Cans AT385-T**  
Barcode ID: 13238117-R-32L-032791  
Container ID: 13238117-R-32L-032791

**Cans AT385-T**  
Barcode ID: 13238117-R-32L-032791  
Container ID: 13238117-R-32L-032792

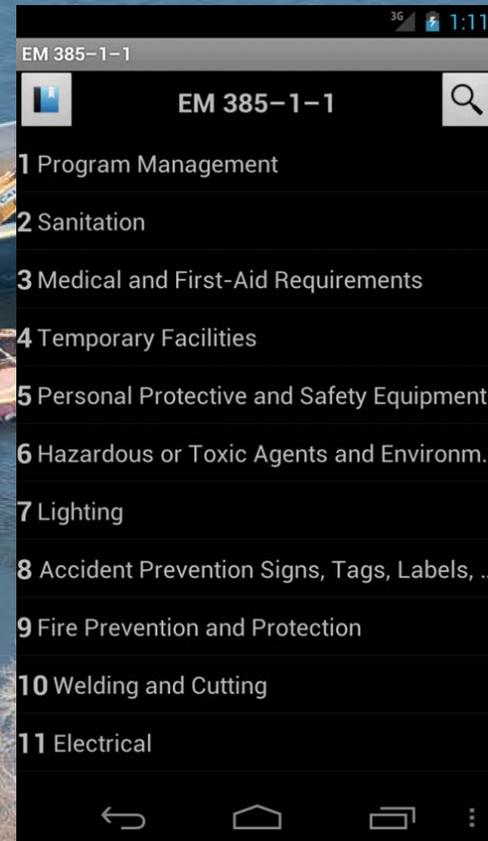
**Barcode ID:** 13238117-R-32L-032791  
**Container ID:** 13238117-R-32L-032791  
**Container Name:** Cans AT385-T  
**Location:** Manufacturing  
    California  
    Woodland Hills  
    Shipping

**Quantity:** 144  
**Container Size:** 32 Liters  
**Status:** Full  
**Created By:** HQ Test Demo159

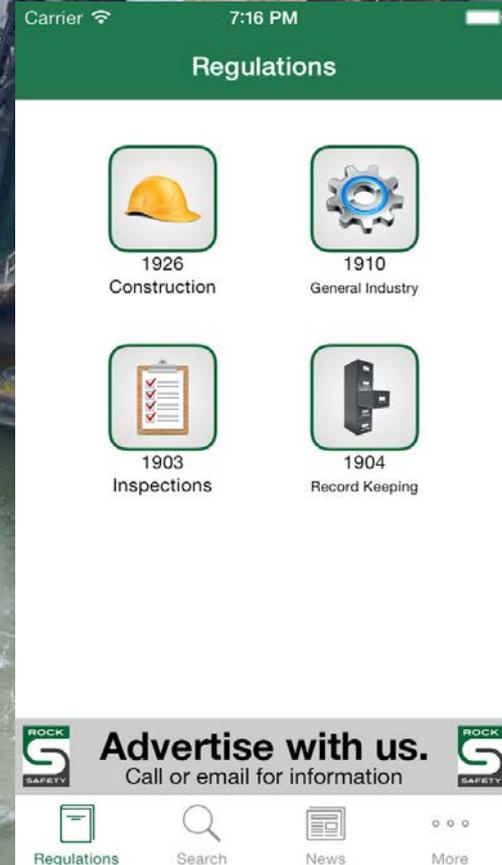
[Edit Container](#)

Search Home History Help

# App Discussion



# App Discussion



# App Discussion



**the Crosby group**  
CROSBY SLING CALCULATOR 6.0

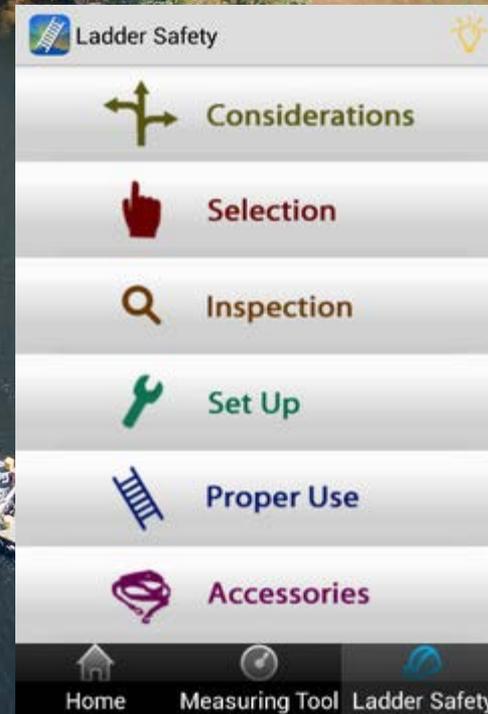
All calculations are subject to round off and must be verified by a qualified person. Read all warnings.

Box Beam 2-Leg Bridle	Box 4-Leg Bridle	Volume & Weight
Box Beam 2-Leg Bridle (Moveable CG)	Box 4-Leg Bridle (Moveable CG)	Center of Gravity

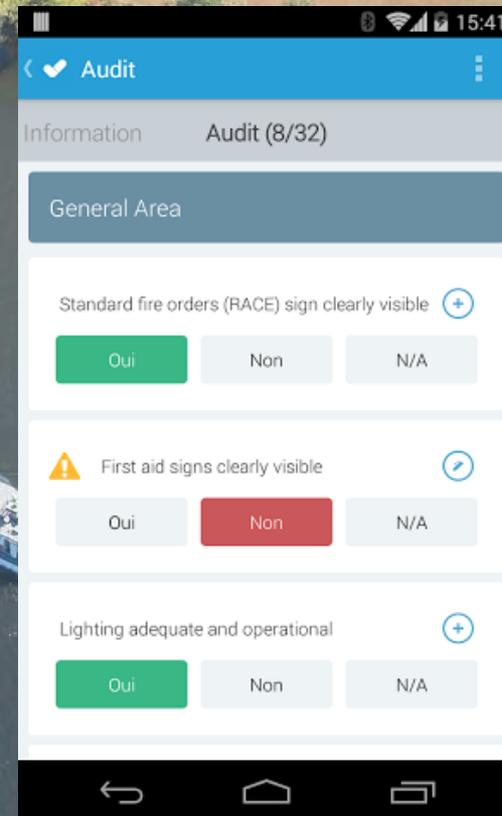
**S-423T Super TERMINATOR™**

The Crosby S-423T Super TERMINATOR™ is the first wedge socket designed to take advantage of the performance properties associated with high performance, high strength, compact strand, rotation resistant wire rope.

# App Discussion



# App Discussion



An aerial photograph of a river system. The water is dark brown, indicating sediment. A large, flat barge is moving down the river, followed by a smaller tugboat. In the upper part of the image, there are several smaller, turquoise-colored ponds or reservoirs, some with small structures or boats. The banks are lined with dense green trees and vegetation.

# Thank You

Dredging Summit & Expo 2015

**CASHMAN**  
DREDGING