





We all understand gravity...and the related risk of falls



WE CAN'T DEFY GRAVITY



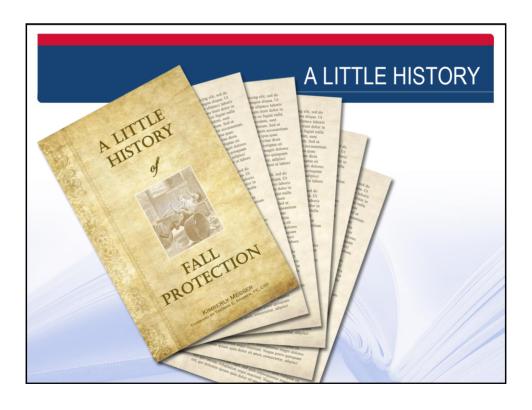
But, do we understand the risks of falls from heights and fall protection?

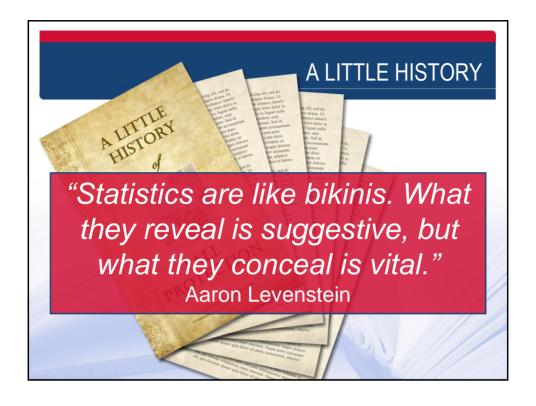


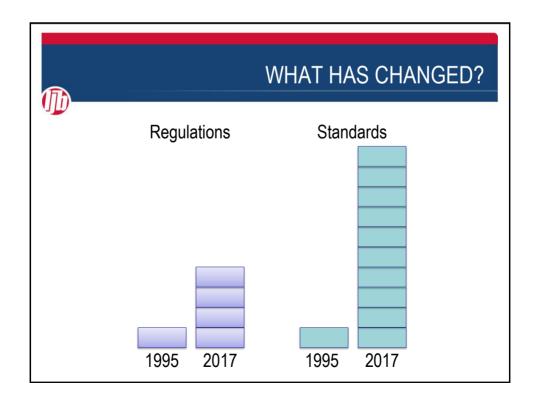


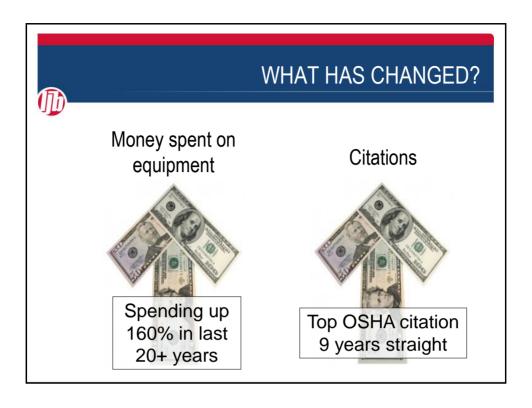
BOTTOM LINE UP FRONT

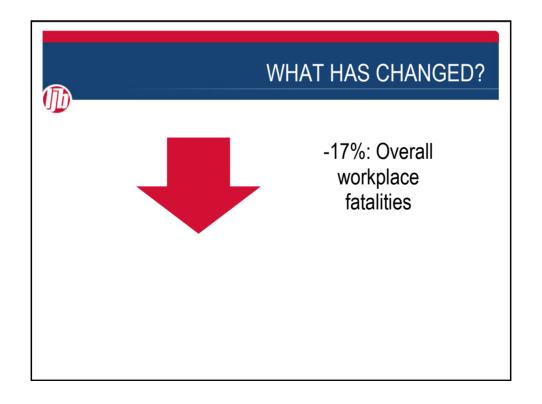
- Reframe the hierarchy of control
- Focus on system redundancies and skills training

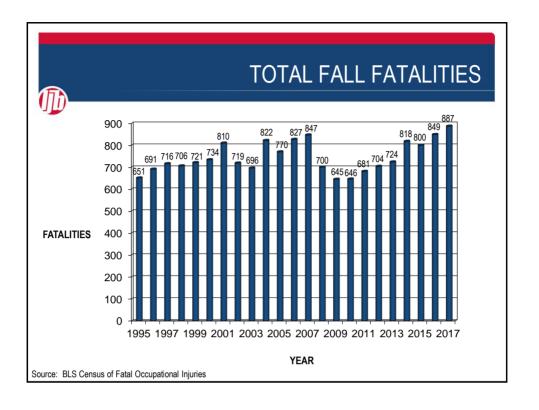


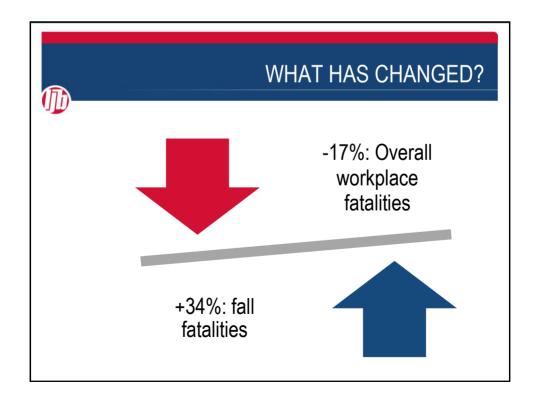


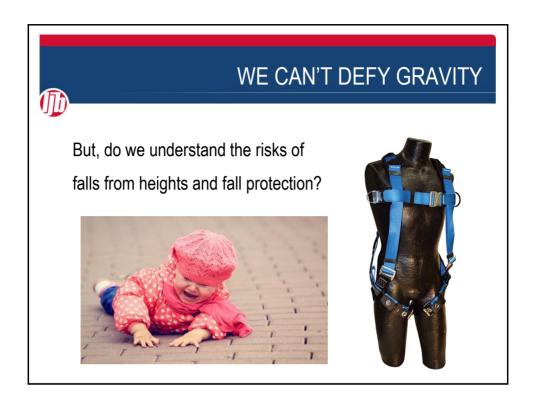








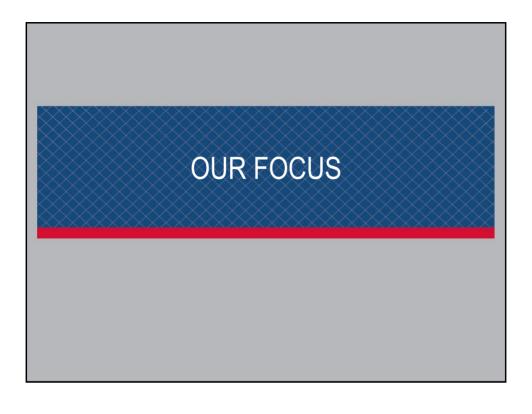


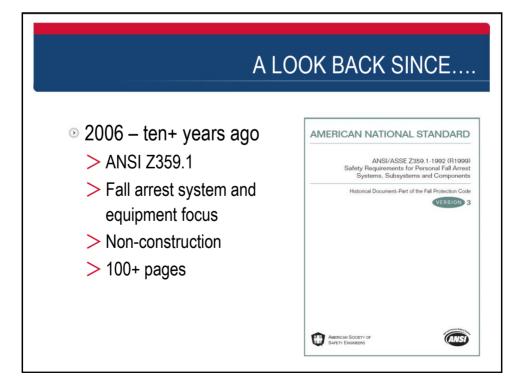


1	UK VS. US STATISTICS – 2016			
		US	UK	
	GDP	18.6 tn USD	2.62 tn USD	
	New construction	1.23 tn USD	0.14 tn USD	
	Total workplace fatalities	5,190	137	
	Construction fatalities	991	30	
	Total fall fatalities	849	25	

UK VS. US STATISTICS – 2016				
	US	UK		
7.1 x GDP	18.6 tn USD	2.62 tn USD		
8.8x Construction	1.23 tn USD	0.14 tn USD		
37.9 ^{Total workplace} fatalities	5,190	137		
33x Construction fatalities	991	30		
34xTotal fall fatalities	849	25		

AUS VS. US STATISTICS – 2016					
		US	AUS		
15	.4x GDP	18.6 tn USD	1.21 tn USD		
28	New construction	1.23 tn USD			
	.7Total workplace fatalities	5,190	181		
	Construction fatalities	991			
34	XTotal fall fatalities	849	25		





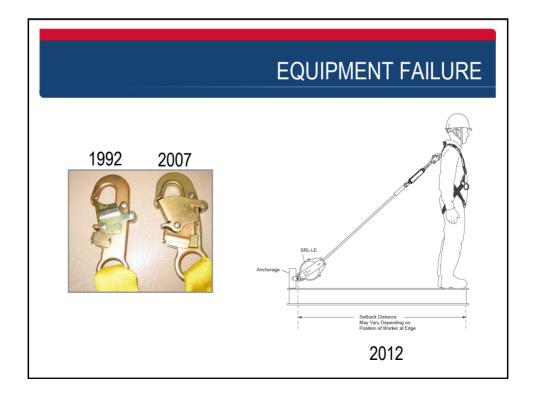
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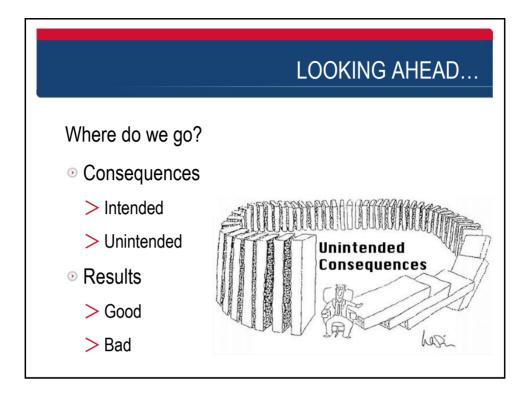
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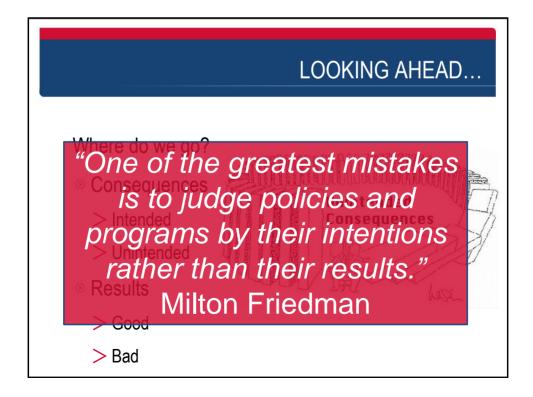
A LOOK BACK SINCE.... 2019 > Program management > Design > Testing > Components – harnesses to anchorage connectors > Construction industry included > Getting to 1,000 pages



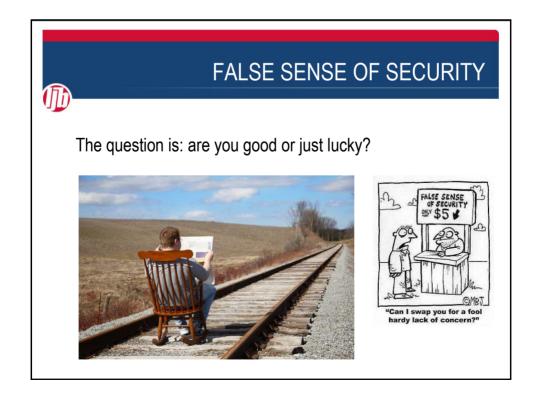


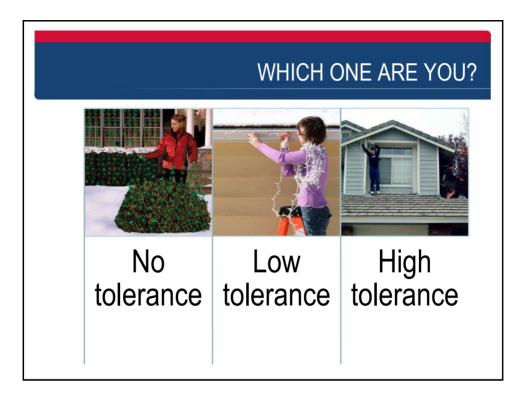




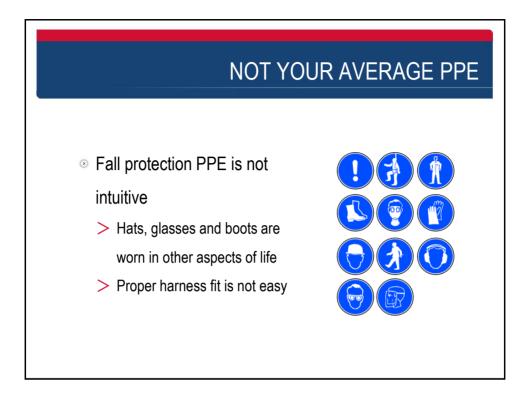


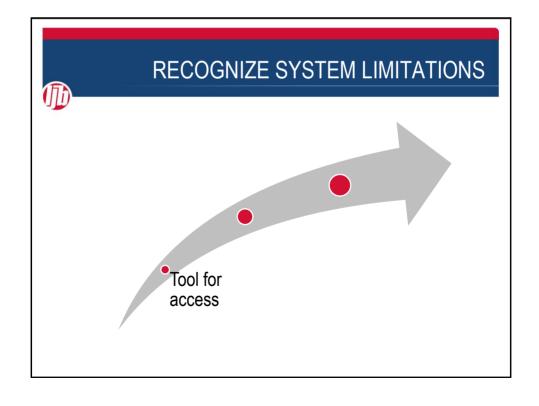


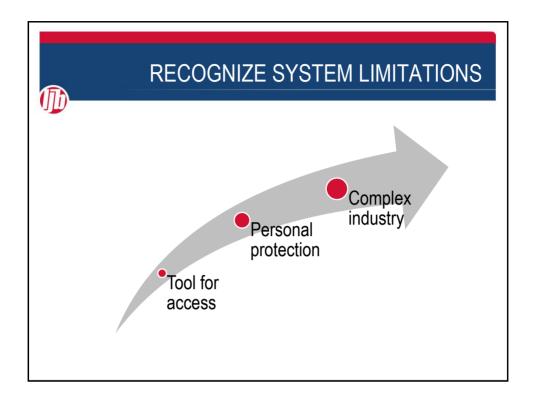


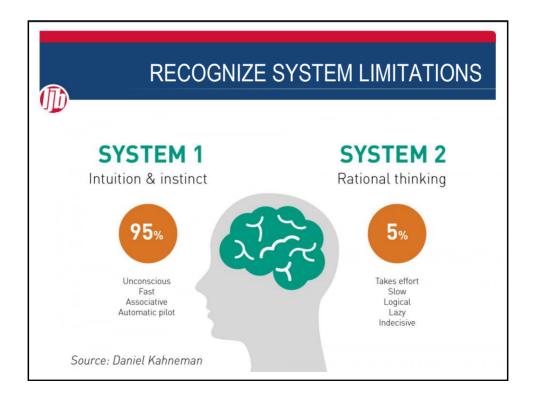












RECOGNIZE SYSTEM LIMITATIONS

"Safety is not the absence of accidents. Safety is the presence of defenses, stop seeing safety as an outcome and start seeing safety as a capacity."

Todd Conklin

CULTURE

Fall protection is not...

>"I'll be careful"

- >"I'm not that high"
- >"It will only take a minute"
- >"I've got a harness on"
- >"I'm tied off"

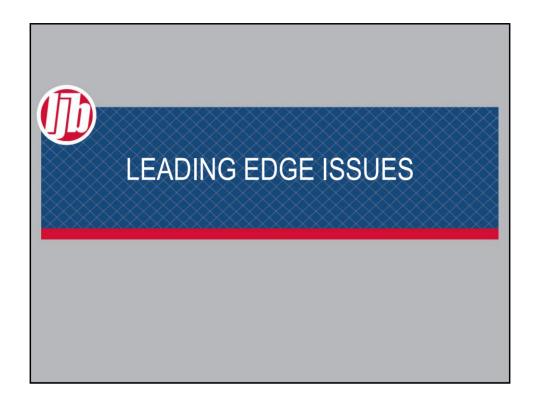
Repeat the lie loudly and frequently...and it will become "true."

CAUSE AND CONSEQUENCES OF FALLS

- Culture
 - > Z359 National Work at Height Task Force
 - > Z359.2 Certificate Program
 - > All systems "designed" by professional
 - · Design out hazards
- Behavior
 - > Require capacity through redundancy

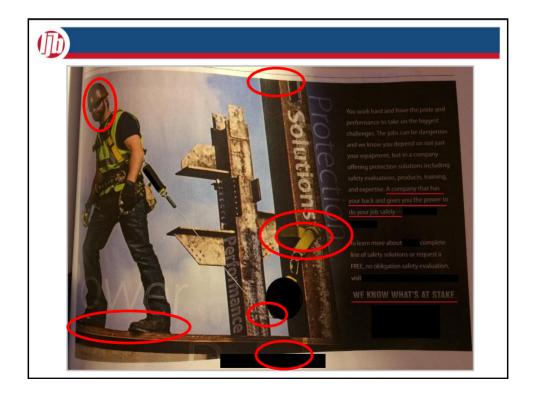
CAUSE AND CONSEQUENCES OF FALLS

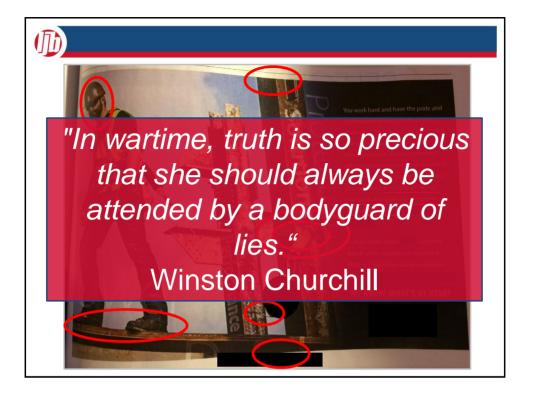
- Ompetence
 - > Define skill-based scenarios
- Equipment failure
 - > Relate tests to use in field

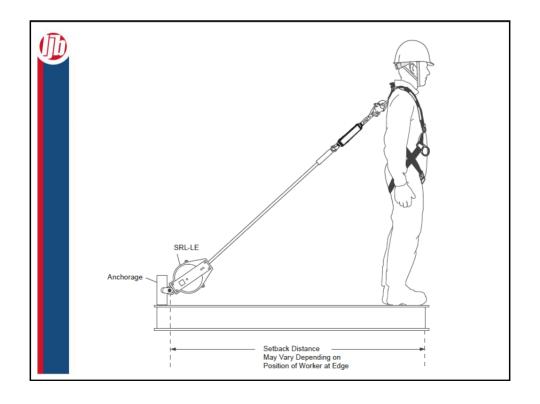




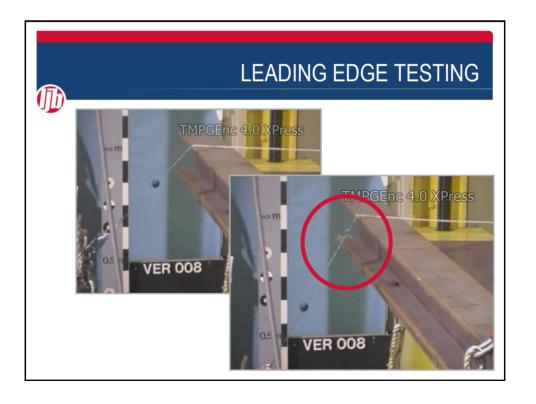


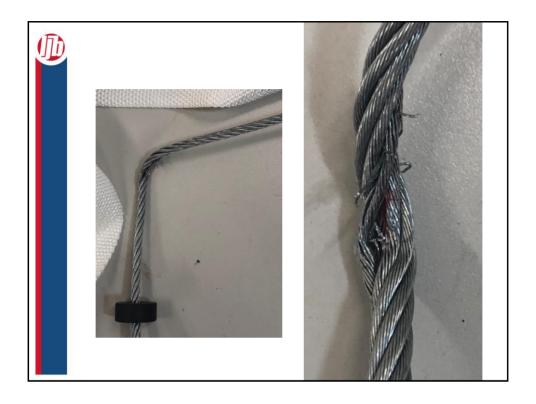








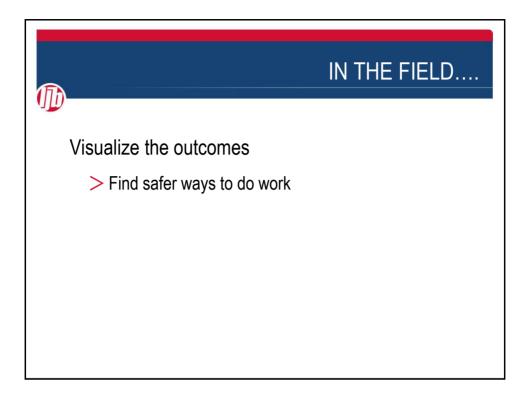


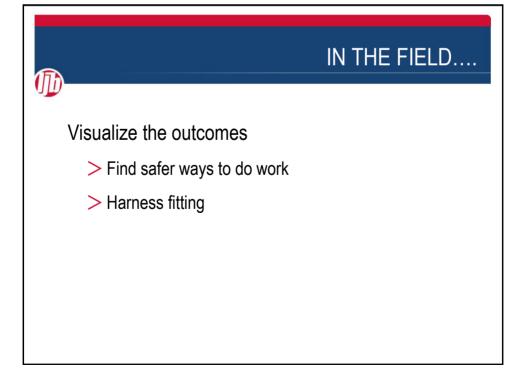










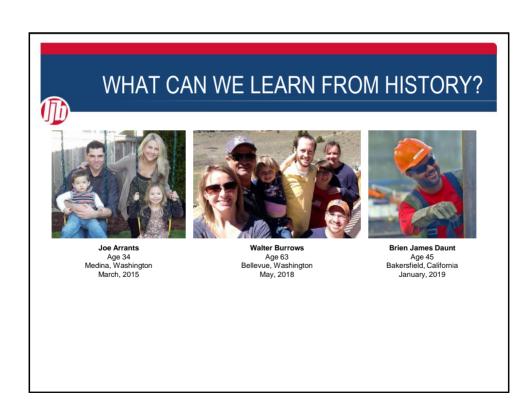




IN THE FIELD....

Visualize the outcomes

- > Find safer ways to do work
- > Harness fitting
- > Anchorages
 - · Higher is often better
 - Documentation





CLOSING EXERCISE: IMAGINE!

Imagine every year on April 22nd at precisely 10:15 am, all of your workers simultaneously "tested" their fall protection systems.

What would happen? Are you good, or just lucky?



CLOSING EXERCISE: IMAGINE!

Imagine that two Boeing 777's loaded with passengers and crew fell out of the sky every year on December 24th.

What happens next?



CLOSING EXERCISE: IMAGINE!

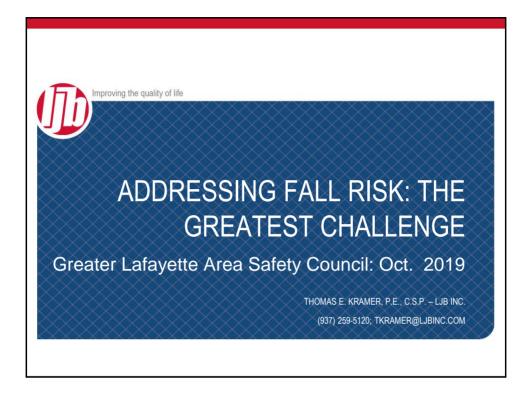
We have over 849 fatal falls each and every year, and this has been the case for decades, despite our best efforts. That does not include life-changing injuries or recordables.

Have we become numb to the BLS data?



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The courses: https://safetyfocus.assp.org/education/courses/
 Or the schedule: https://safetyfocus.assp.org/schedule-tool/



CASE STUDY #1

- Just because it meets ANSI...
 - > Doesn't mean it's indestructible
- https://bit.ly/20Clu7x



CASE STUDY #2

- Just because it meets ANSI...
 - > Doesn't mean it's indestructible
 - http://bit.ly/2yXMjbu
 - http://bit.ly/2y1c3pi



CASE STUDY #3

- Just because it meets ANSI...
 - > Doesn't mean it's indestructible
 - http://on.freep.com/2xhvFl6



CASE STUDY #4

- Tell convincing stories
 - https://bit.ly/2zRuflK
 - https://bit.ly/2Rqt2sD

