

OSH Journey from Compliance to Total Worker Health®: What should we do now?

Deborah R. Roy, MPH, RN, COHN-S, CET, CSP, FAAOHN, FAASP

SafeTech Consultants, Inc.

The Occupational Safety and Health Journey

Business Continuity & Enterprise Metrics



Empowering Workers

Risk Assessment & Management



Safety & Health Management Systems

Regulatory Compliance



Industry Best Practices

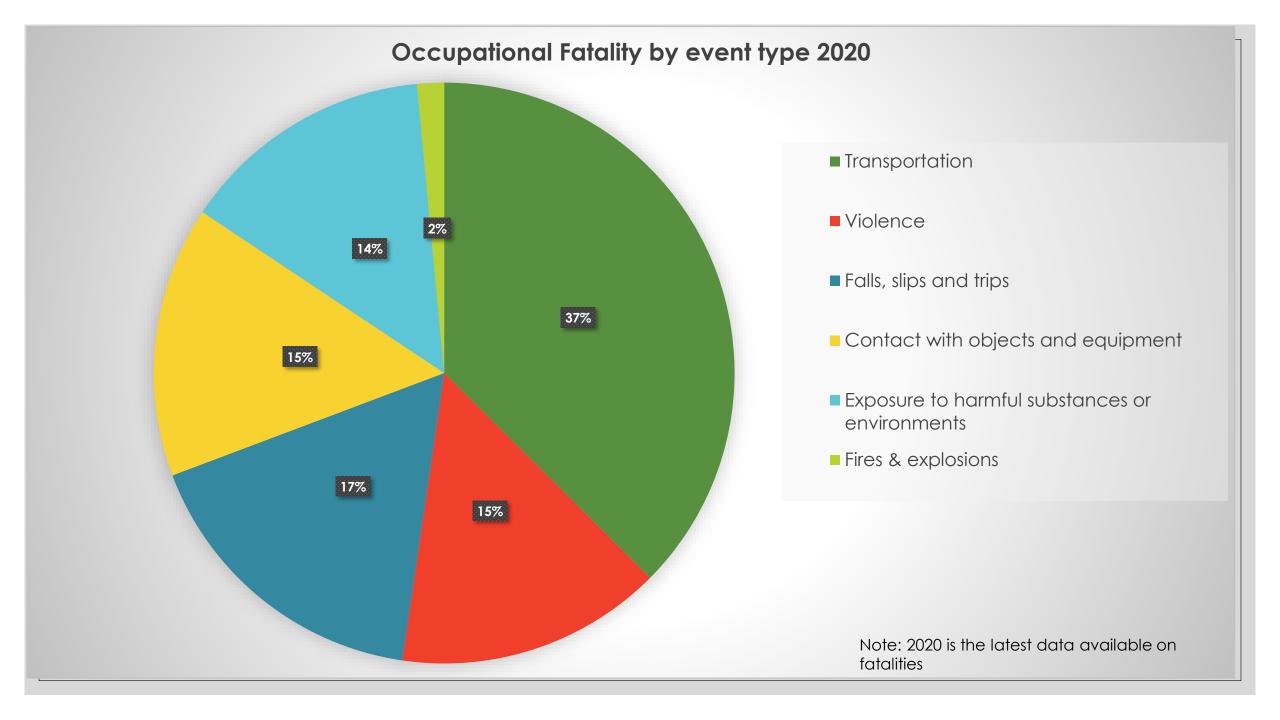




Total

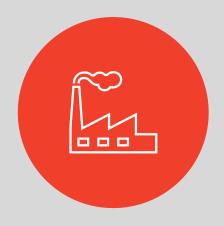
Worker Health®

Why an OSH Journey?





New OSH information added in last 20 years



100 NEW, REVISED, REAFFIRMED STANDARDS PUBLISHED BY ASSP



1000 PEER REVIEWED JOURNAL ARTICLES



EXPERIENCES BY OSH PROFESSIONALS AND THEIR ORGANIZATIONS ??

The Occupational Safety and Health Journey

Business Continuity & Enterprise Metrics



φ

Total

Worker Health®

Empowering Workers

Risk Assessment & Management



Safety & Health Management Systems

Regulatory Compliance



Industry Best Practices





Regulatory compliance

So, what's wrong with Regulatory Compliance?

- 100% compliance with OSHA standards was never intended to be the ultimate safety system.
- Regulations are a minimum standard, yet many US companies are striving for those minimum standards, not identifying the risks and eliminating the opportunity for injuries and illnesses.

Why aren't OSHA Standards enough?

"In a culture of legal precision, lawmakers' focus on what they can write a clear rule about. Solid, objective rules, like the precise height of railings, satisfy lawmakers' longing for certainty. Human activity, however, cannot be so neatly categorized."

Philip Howard

The Death of Common Sense

Industry best practices/ standards

The Best Practice Approach

- One way to improve safety performance is to look at the ways others have accomplished a safe workplace.
- Benchmarking is the process of identifying, understanding, and adapting outstanding practices from organizations anywhere in the world to help your organization improve its performance.

Standards

 Another way to improve safety performance is to influence the implementation of voluntary consensus standards that include techniques or mitigation strategies that are beyond regulatory compliance.

Risk assessment + Management (including PtD, SIF)

Risk Example: Ergonomic risk inducting on auto pack

				Severity of Injury or Illness Consequence						
				(CAT) Catastrophic Death or permanent total disability	(C) Critical Disability in excess of 3 months, hospitalization of > 3 people per event	(M) Marginal Minor injury, lost		(N) Negligible First aid or minor medical treatment		
				4	3	2		1		
	nce or	(F) Frequent	5	High-20	High-15		Serious-10		Medium-5	
	00	(P) Probable	4	High-16	High-12		Serious-8		Medium-4	
	ikelihood/Probal Ex	(O) Occasional	3	High-12	Serious-9		Medium-6		Low-3	
		(R) Remote	2	Serious-8	Medium-6		Medium-4		Low-2	
		(I) Improbable	1	Medium-4	Low-3		Low-2		Low-1	

Risk Control Example

HIGH ergonomic risk for operators inducting at the Auto Pack 5 Footwear Machine

Risk score = Serious -10

Solution	New Risk Score	% Improvement	Estimated Cost To Implement
Implemented Solution: Adjusting operator induction height	5.9	41%	\$0 - \$500 (actual was 1 hour of labor time)
Installing tote dumping	4.6	54%	\$80k - \$100k
Vacuum lift device	6.3	37%	\$30k - \$50k
Installing robotics	0	100%	\$60k - \$100k

Prevention through Design



- One of the best ways to prevent and control occupational injuries, illnesses, and fatalities is to "design out" or minimize hazards and risks. NIOSH leads a national initiative called Prevention through Design (PtD). PtD's purpose is to promote this concept and highlight its importance in all business decisions.
- ANSI/ASSP Z590.3 standard helps safety professionals and their employers incorporate
 prevention through design concepts into decision-making related to the design and
 redesign of work premises, tools, equipment, machinery, substances and work
 processes.

Serious incidents and fatalities (SIF)*

- Focuses on leading instead of lagging metrics.
- Preventing SIFs requires a greater attention to activities with higher risk potential.
- Precursors that lead to SIFs are different than the usual cases on the OSHA log.
- Risk assessment is a critical tool for SIF prevention.

* Other terms are used for this same concept, FSI and FSII

Serious Incident and Fatality (SIF) Potential

High-risk activities

- Confined space work
- Electrical work
- Hazardous energy control
- Work involving mobile equipment
- Working at height

High-risk job categories

- Electricians
- Maintenance personnel
- Welders, etc.

Identifying
Serious
Incident and
Fatality
Potential

Exposure to

- Biological agents
- Chemical hazards
- Physical hazards

Safety and Health Management Systems

Safety and health management systems

ISO 45001

ANSI

Z-10

OSHA VPP

Business continuity and enterprise level metrics

Enterprise level – continuity and metrics

- OSH professionals can participate in or manage business continuity for an organization. This is more than emergency response. It's planning for continuity of operations and addresses enterprise level risks.
- OSH professional needs to understand the business operations themselves and consider metrics that are broader than the typical injury and illness data.
- Check out the NEW STANDARD ANSI/ASSP Z16.1 Safety And Health Metrics And Performance Measures!
 - Provides the means to track and demonstrate the impact that safety and health efforts have on the organization's business. It utilizes a balanced approach to understand and assess safety and health efforts using leading, lagging, and impact metrics.

Empowering workers (HOP, Psychological Safety)

Empowering workers

- ANSI/ASSP/ISO 45003-2021 Occupational Health and Safety Management –Psychological Health and Safety at Work – Guidelines for Managing Psychosocial Risks
- Human and Organizational Performance (HOP) is a sciencebased approach to looking at mistakes so we can address them more effectively. It builds an understanding of how humans perform and how we can build systems that are more error tolerant.

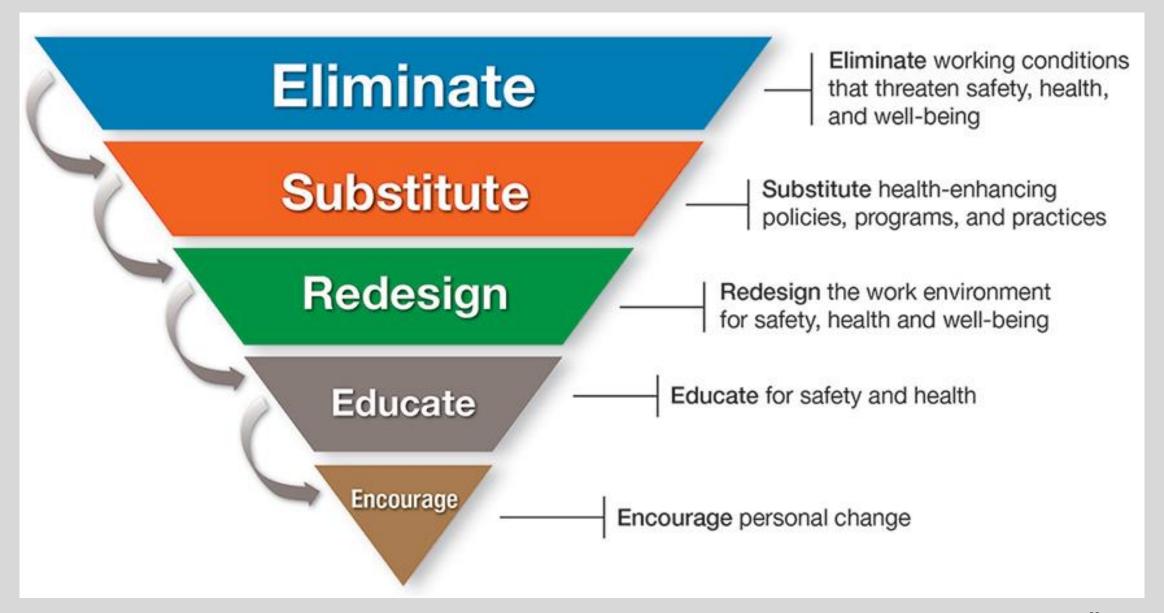
Total worker health®





Adapted from: Liberty Mutual, 2010, Webinar, The Wellness-Work Comp Connection.

Goetzel R. Examining the Value of Integrating Occupational Health and Safety and Health Promotion Programs in the Workplace. The NIOSH Total Worker Health Program: Seminal Research Papers 2012. DHHS (NIOSH) 2012-146.

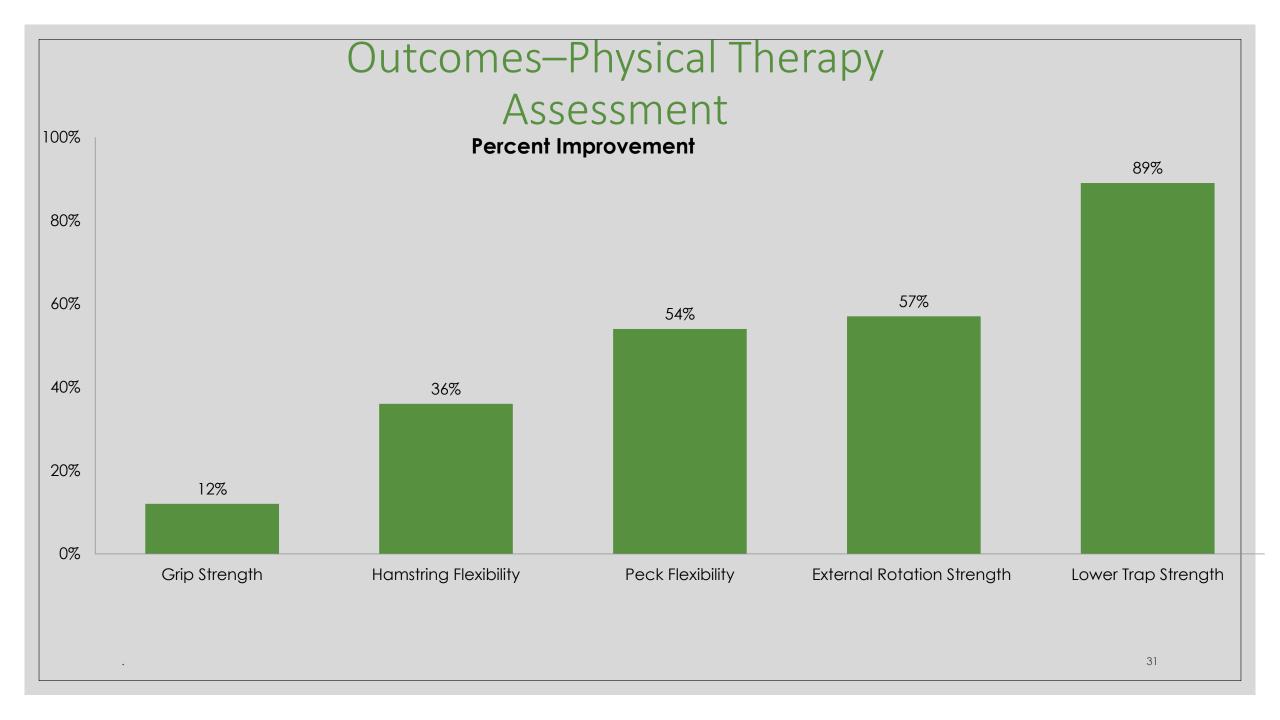


Overview of JumpStart to fitness

- JumpStart is a 12-week supervised VOLUNTARY exercise program on company time.
- Included pre/post testing along with follow up after the program.
- Leadership chose case handling employees for JumpStart due to high risks of the job and frequency of shoulder injury during previous year.
- Workers had average age of 46 and 11 years of service







How do I influence change?

- Help leadership see the value by understanding the metrics they care about and address how the proposed project improves those metrics
- Listen to and encourage participation from those who will be directly affected and those who will likely be resistant
- Be clear and specific about the proposed change communicate why it's necessary and the benefits of the change
- Gain support from other colleagues who can support the change
- Be sure to leverage the change management process used by your organization

How do we support each other in this journey?

- Write about your successful approach
- Volunteer on standard committees that address emerging concepts
- Develop pilot programs within your organization to test/research new strategies
- Leverage or learn more business skills to influence your organization to try new ideas
- Consider your role in impacting the organization, could you contribute differently?
- Investigate the cost of risk in your organization and your impact on it
- Determine what tolerance your organization leadership has for risk

The Occupational Safety and Health Journey

Business Continuity & Enterprise Metrics



Health®

Risk Assessment & Management



Safety & Health Management Systems

Regulatory Compliance



Industry Best Practices





