A Gamechanger for Measuring OSH Performance: ANSI/ASSP Z16.1-2022

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Online Evaluation



Key Issues

Addressed

What's Wrong with How We Do it Now?

- Lagging incident rates don't measure how well your "safety" program is functioning*
- OSHA Recordkeeping Standard intended to track information and enforcement, not measure progress
- No consistent use/definition of terms – metric, indicator, lagging, leading, etc.
- Metrics isolated from business operations – doesn't provide information on value of investment

*The Statistical Invalidity of TRIR/Hallowell et al/PSJ 4-2021

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• Representation from SMEs and key stakeholders

Clear definitions and iterative process

Lagging, Leading and Impact Metrics

Addresses impact of OSH programs/processes

Demonstrates value to business

Importance of balanced approach

 Combines risk reduction with OSH management system improvement

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Developing Risk Management Metrics

Select elements/attributes to be measured

- Elements of risk management
- Attributes key characteristic of the element
- Table 1 or your own
- Examples
 - ✓ Risk identification identify hazards, including all aspects
 - ✓ Risk treatment design/redesign the workplace









Developing Management System Metrics

- Gap Analysis of OSH management system elements
- Look for alignment with risk metrics they should compliment each other
- Compare gaps to organization's strategic objectives or benchmarking against industry
- Everyone has a management system

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Developing Management System Metrics

Select elements and attributes to be measured

- Elements of MS Leadership, support, monitoring, continual improvement
- Table 2 or your own
- Examples
- ✓ Leadership Top Management's commitment matched with allocation of resources
- ✓ Support Processes in place to improve competency of workers





	Table 2 Common Safety and Health Management System Elements and Attributes		
Ele Ele	lement	Attributes	
PROFESSIONALS CONFERENCE	Leadership	Top management has established safety and health and risk management as core values in the organization	
		Top management has established a vision for safety and health performance and define safety and health objectives to reduce risk	
Le		Top management's commitment to risk management and treatment is clearly demonstrated by actions and allocation of financial resources	
		Top management holds people accountable for worker safety and health at all levels of the organization	
		Workers are engaged by having an active, meaningful role in reducing risk	
W		Workers have meaningful roles in safety and health decisions, including risk identification, assessment, and control	
		Workers are empowered to address risk	
	Implementation, Operation, and Support A A A A A A A A A A A A A A A A A A A A A A A In A	Barriers to worker engagement are minimized	
		A maintenance process is in place to prevent operation of unsafe equipment	
		An emergency preparedness process is in place for all likely scenarios with drill schedules	
In		A management of change process includes safety and health review to reduce risk	
S		A procurement process continually looks for less hazardous substitutes	
		A process is in place to ensure that personnel operate safely and follow site rules	
		An occupational health process provides for early detection, treatment and return to work	
S:	System Support	Safety and health messages are effectively communicated to stakeholders	
:	Communication Training	A process is in place to ensure management and workers understand the risks, and how and why to work safely	
•	Competency	The organization has a system in place that promotes continual safety competency improvement	

Developing Management System Metrics

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- Select leading, lagging and impact metrics
- First ask What do we want to achieve? (lagging)
- Then ask How can we influence the result? (leading)
- Last ask What impact on organizational strategy will occur? (impact)



Developing Management System Metrics

- Select leading, lagging and impact metrics
 - First ask What do we want to achieve? (lagging)
 - Then ask How can we influence the result? (leading)
- Last ask What impact on organizational strategy will occur? (impact)

Take a few minutes to jot down some examples based on your organization's management system



Another Example

Significant Risk identification

- Falls from ladders completed risk assessments/WC loss runs
 - Ladders are old and not in good condition
 - Lots of work at heights tasks
- Serious injuries; no fatalities but risk assessments indicate high probability

Significant Risk Reduction Opportunity

- Redesign work tasks less work at heights
- Minimize use of portable ladders
- mobile platforms, lifts

Note: Not better training and inspections!



Another Example

Select Metrics

Lagging

- Number of work tasks by department requiring portable ladders down by 50%
- Inventory of portable ladders down by 50% old ones not replaced, no new ones purchased
- Inventory of mobile platforms/lifts up by 50%

Leading

- Number of work at height tasks with revised risk assessments goes up by 30
- Number of assessments recommending higher level controls goes up by 20

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Another Example

Management System Improvement

- System Gaps
 - Leadership doesn't allocate enough resources for revising risk assessments
 - Workers are not engaged in task design/risk assessments



Another Example

Select Metrics

- Lagging
 - Resource allocation for equipment purchases mobile ladders, lifts increases by \$25,000.
 - Number of risk assessment teams increases from 1 to 4.
 - Percent of work at height risk assessment revised increases by 50%
- Leading
- Change in equipment authorization process OSH managers can approve purchases up to \$2,500 from \$500

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OSH department budget increases by \$10,000 to train new risk
assessment teams













