

World Class OHSMS

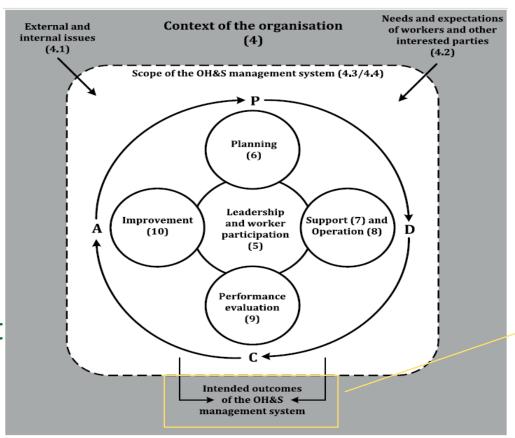
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Objectives

- ISO 45001 OHSMS: Strengths and Weaknesses
 - Comparisons to other SMS
 - Where are the Implementation Strategies?
- Maturity Path Model:
 - PEP
 - Form 33
 - Safety Through Accountability and Recognition STAR
- Metrics are the Key
 - Measuring the Right People on the Right Things
 - Safety Though Accountability and Recognition

ISO 45001 OHSMS

- Strengths
 - Finally! Leadership and Worker Participation!
 - Risk Assessment
 - Management Review
 - Continual Improvement
 - Plan, Do, Check, Act



- Weaknesses (missing)
 - Management Accountability
 - Trend Analysis
 - Safety Critical Equipment Maintenance
 - Industrial Hygiene
 - Occupational Medicine
 - Intended Outcomes Unclear (Metrics)

ISO 45001 - 2018

Leadership and Worker Participation

Leadership and Commitment

OH&S Policy

Roles,

Responsibility and Authority

Consultation and
Participation of
Workers

Planning

Risks and
Opportunities

- Hazard ID
- Assessment of Risk
- Assessment of Opportunities
- Legal Requirements
- Planning Action

Objectives

- OH&S objectives
- Achieving Objectives

Support

Resources Competence

Awareness

Communication

- Process
- Internal
- External

Documentation

- Necessary for Effectiveness
- Creating and Updating
- Document Control

Operation

Operational
Planning and
Control

- Process
- Eliminating
 Hazards and
 Reducing Risks
 (Hierarchy of
 Control)
- Management of Change
- Procurement

Emergency
Preparedness and
Response

Performance Evaluation

Measurement, Monitoring, Analysis and Performance Evaluation

Compliance
 Internal Audit
 Program
 Management
 Review

Improvement

Incident, Nonconformity and Corrective Action

Continual Improvement

ANSI Z10 - 2019

5.0 Mgmt Leadership

6.0 Planning

7.0 Support 8.0 Implementation & Operation 9.0
Evaluation
&
Corrective Action

10.0 Management Review

Management Leadership

- OHS Management System
- OHS Policy
- Responsibility and Authority

Worker
Participation
OHS MS

Review

- OHS Gap Analysis
- Regulations, standards, etc.
- Resources
- Hazard analysis

Assessment and Prioritization

Risk Determination

Objectives and Targets

Plans and resources

Resources

Education, Training and Competence

Awareness and

Communication

Documentation Control

Operational Planning and

Identification of OHSMS

Control Elements

Issues

- Hazard ID
- System Deficiencies
- Opportunities
- Legal and Other

Risk Assessment

Hierarchy of Controls

Design Review and MOC

Procurement

Contractors

Occupational Health

Emergency Preparedness

Measurement,

Monitoring and

Assessment

Incident

investigation

Audits

Corrective Actions

Process

+ Outcomes and Followups

Value of SMS: A System

Management Commitment

Hearing Conservation: eliminate noise sources and hearing loss

Planning

Policy: design out

Engineering: no new noise sources

Worker Participation in selection of control procedures

Inventory of noise sources

Add new controls

Implementation

Resources

Worker compentency

Document training, audiometry, hearing loss

Calibrate equipment

Performance

Test noise sources

Inspect for conformance

Report to Management

Notice: to effectively meet any requirement, you will need EACH aspect of the MS!

Improve

Set targets for reduction

ISO 45001: New Terms

- Competence vs. Training (Also in Z-10)
- Continual vs. Continuous (also in ILO)
- Conformity (not exactly new)
- Worker and Workplace vs. Employee
- Others!

Other SMS

- ANSI Z 10 2019
 - Appendices
- OSHA Program Management Guidelines
 - First Published in 1989
 - New 2016
- OSHA VPP (2008)
- OSHA Program Evaluation Profile (PEP)
 - First Published in 1996 (no longer used by OSHA)
- OSHA Form 33 (SHARP)
 - Revised Oct 2000
- International Labour Org; Guidelines on Occupational S&H Management (2001)
- NSC: Journey to Safety Excellence
 - People, Planning, Programs, Progress, Performance.
- Canada Z 1000 (Suspended Replaced with ISO 45001+)
- Global STAR (proprietary)
 - Used by a number of Fortune 500 companies.

Crosswalk:

https://www.osha.gov/shpguidelines/docs/Crosswalk_to_Voluntary_OSHA_Standards_7-3-18.pdf

OSHA's Program Management Guidelines (1989, and RPs 2016)

MANAGEMENT LEADERSHIP WORKER [PARTICIPATION

- Commitment
 - Policy
- Planning
- Visibility
- Goals, Objectives
- Resources
- Performance
 - Roles and Responsibility
 - Accountability
 - Positive Recognition
- Open Communication

н

- Encourage Participation
- Encourage Reporting
- Access to Info
- Involvement
 - (Committees)
- Remove Barriers

HAZARD
IDENTIFICATION AND
ASSESSMENT

- Hazard Identification
- Inspections
- Change Management
- Health Hazards (IH)
- Ergonomics
- Incident Investigations
- Control Hazards and Risks

HAZARD
PREVENTION
& CONTROL

- Control Options
- Hierarchy of Controls
- Hazard Control Plan (Action Tracking)
- Emergency and Non-Routine Controls
- Implement Controls
- Control Effectiveness
- Preventive Maintenance

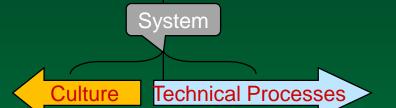
EDUCATION AND TRAINING

Awareness

- Roles
- Manager
- Supervisor
- Employers
- Employee Roles
- Worker Hazards and Controls

PROGRAM EVALUATION
AND
IMPROVEMENT

- Monitor Performance
- Lagging
- Leading
- Trend Analysis
- Closure Rates
- Climate Surveys
- Verify
- Evaluation
- Compliance
- Opportunities



OSHA's Voluntary Protection Program (CSP 03-01-005)

MANAGEMENT LEADERSHIP

Management Commitment

Employee Involvement

Encouragement

• Participation

• (Committees)

- Policy
- Goals, Objectives
- Planning
- Top Management Leadership
- Responsibility and Authority
- Line Accountability
- Resources
- Contract Worker Coverage
- Written S&H Management System
- Annual Self-Evaluations

WORKSITE HAZARD ANALYSIS

- Baseline Assessments
- Routine Hazard Analysis
- Change (Pre-use) Analysis
- IH Program
- Routine Self-Inspections
- Reporting System
- Investigations
- Trend Analysis

HAZARD
PREVENTION
& CONTROL

- Certified Professional Resources
- Hazard Elimination and Control Methods
 - Engineering
 - Admin
 - Work Practices/Rules/ Discipline
 - PPE
- (Process Safety Management)
- Occupational Health Care
- Preventive Maintenance
- Tracking of Corrections
- Emergency Preparedness

SAFETY & HEALTH TRAINING

- Managers
- Supervisors
- Employees
 - •Emergencies
 - •PPE

System

Culture

Technical Processes

Management Accountability

 Let's look at some of the language in the SMSs that address Management Accountability...

ISO 45001

3.12 top management

person or group of people who directs and controls an *organization* (3.1) at the highest level

5.1 Leadership and commitment

a) taking overall responsibility and **accountability** for the prevention of work-related injury and ill health, as well as the provision of safe and healthy workplaces and activities

5.3 Organizational roles, responsibilities and authorities

Note: While responsibility and authority can be assigned, ultimately top management is still accountable for the functioning of the OH&S management system.

Accountability Systems









ILO

3.3.2 Responsibility, Accountability and Authority

Senior Management Level develop, implement, evaluation and review OHS MS and Objectives

3.11 Performance Measurement

- Performance indicators
- Based on hazards and risks
- 3.14 Management Review - Findings

Form 33

28. An accountability mechanism is included with each assignment of safety and health responsibility.

41. Top management considers safety and health to be a line rather than a staff function.

48. Top management is involved in the planning and evaluation of safety and health performance. **PMG**

Define and regularly communicate responsibilities and authorities for implementing and maintaining the program and hold people accountable for performance.

PEP

Implementation means tools, provided by management, that include:

- -- budget
- -- information
- -- personnel
- -- assigned responsibility
- -- adequate expertise and authority
- -- means to hold responsible persons accountable (line accountability)
- -- program review procedures.

Accountability



VPP 2008 / 2020 -

Management Accountability

Holding those assigned responsibility for safety and health accountable for meeting their responsibilities through a documented **performance standards and appraisal system**.

Planning for typical as well as unusual/emergency safety and health expenditures in the budget, including funding for prompt correction of uncontrolled hazards.

Program Management Guidelines 1989

(vii) Hold managers, supervisors, and employees accountable for meeting their responsibilities, so that essential tasks will be performed.

To be effective, a system of accountability must be applied to everyone, from senior management to hourly employees.

Summary of Similarities



Management

Leadership

Roles and Responsibilities

Written OHSMS

Resources



Worker

Consultation

Participation

Recognition



Implementation

Risk Assessment (hazard analysis)

Legal

Objectives

Competency (training)

Hierarchy of Control

Procurement (Contractors)

Management of Change

Inspections

Investigations

Audits / Assessments

Emergency Preparation



Action

Corrective Action – generation and tracking

Evaluation and Analysis

Non-Conformity

Management Review and Action

Continual Improvement

Summary of Strengths

> based on OSHA X walk



45001 - 2018

Worker consultation <u>and</u> Participation

Risk Assessment

Competence

Document Control

Outsourcing

Emergency preparedness and response

Compliance evaluation

Non-conformity corrective action



Z10-2019

Competence

Document Control

Process Verification (MOC)

Risk Assessment

Outsourcing

Occupational Health

Organizational Learning

Leading Indicators

Management Follow-up



VPP 2000, PMG 1989, RPs 2016

Accountability

Worker participation

Industrial Hygiene

Certified Professional Resource

Occupational Health Care

Preventive Maintenance

Disciplinary System

Supervisor and Manager Training



OSH - 2001

Accountability

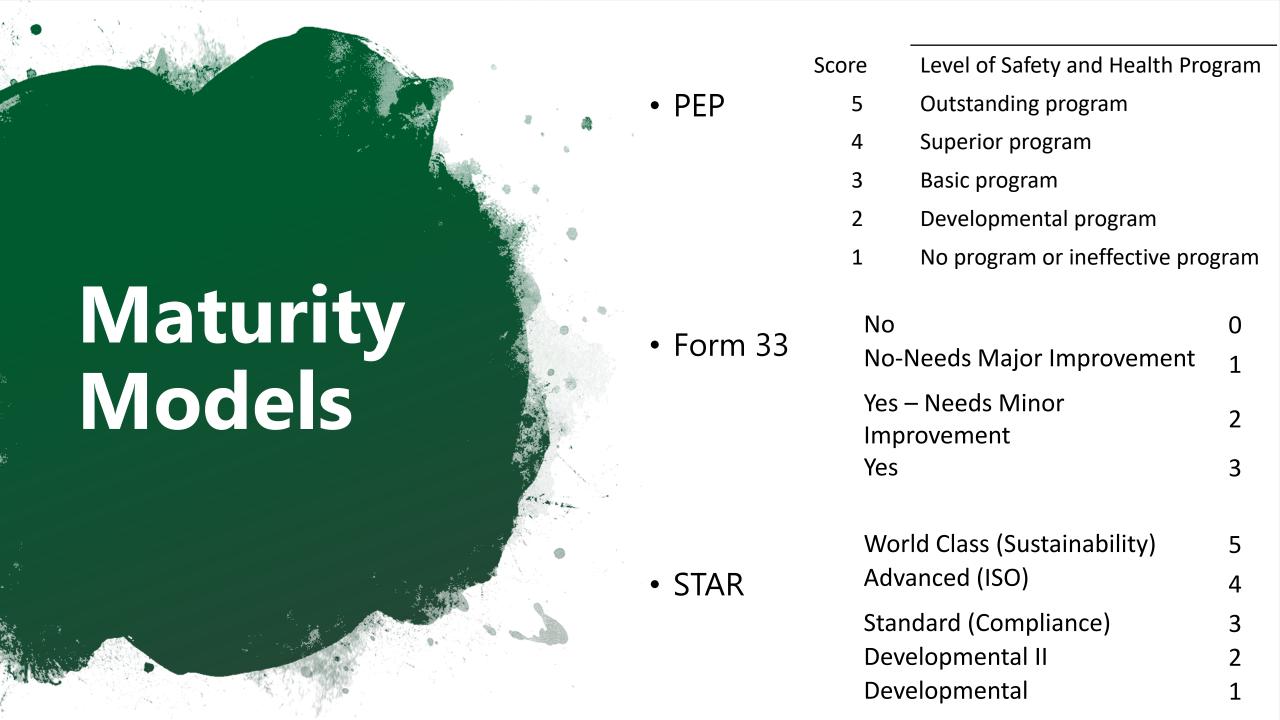
Competence

Emergency Prevention,
Preparedness <u>and</u> response

Overall Weaknesses

- Implementation Strategy
- Auditing Standard
- What does "Good" look like

As a result, many references have attempted to lay out a step-by-step implementation strategy, or maturity model, similar to quality's Malcom Baldrige.



PEP (Performance Evaluation Profile)

Program Evaluation Profile (PEP) Chart

6 Sections
15 Elements
Five Levels
each

PEP Program Evaluation Profile Employer:		Manag and Er	gement mploye	Leaders e Partici	hip pation	Workp	lace An	alysis	Accide and R Analy	ecord	Hazar Preve Contr	ntion a	ind	Emergen		Safety and Health Training	
Inspection No.: Date: CSHO ID:		Management Leadership	Employee Participation	Implementation	Contractor Safety	Survey and Hazard Analysis	Inspection	Reporting	Accident Investigation	Data Analysis	Hazard Control	Maintenance	Medical Program	Emergency Preparedness	First Aid	Training	
Outstanding	5																5
Superior	4																4
Basic	3							Tall I									3
Developmental	2			Field					1917								2
Absent or Ineffective	1																1
Score for element																	
Overall Score																	

Form 33 (SHARP)

	0	1	2	3	NA	NE
1. A comprehensive, baseline hazard survey has been conducted within the past five (5) years.						
Comments:						
2. Effective safety and health self-inspections are performed regularly.						
Comments:						
3. Effective surveillance of established hazard controls is conducted.						
Comments:						
4. An effective hazard reporting system exists.						
Comments:						
5. Change analysis is performed whenever a change in facilities, equipment, materials, or processes occurs.						
Comments:						
6. Accidents are investigated for root causes.						
Comments:						
7. Material Safety Data Sheets are used to reveal potential hazards associated with chemical products in the workplace.						

FORM 33 SUMMARY										
#DIV/0!	Current									
#DIV/0!	Previous									
		0	1	2	3	NA				
#DIV/0!	Current	0	0	0	0	0				
#DIV/0!	Previous	0	0	0	0	0				
#DIV/0!	Current	0	0	0	0	0				
#DIV/0!	Previous	0	0	0	0	0				
67%	Current	0	0	1	0	0				
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7 Sections, 58 Criteria Four Levels!

STAR SMS

• As an example how to integrate the best of the SMSs into one systems, let's walk through an example

 Hopefully, you can use this to create your own...

Thx To GE for the initial creation of this maturity model (1996)

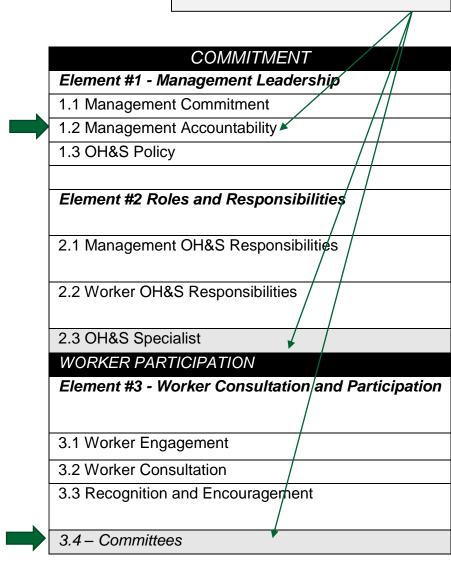
STAR SMS

100 Total points!				Leade	rship	P	lanni	ng					rt and Impler	_	tions			Po	erfor	manc	Impro
			Commit	ment	Worker Participation		(Plan	_		Suppo	ort		•	Operat	tion				е	ation	ve (Act)
20 Elements points m each	ment No:	Element Level	1.0 Management Leadership and <mark>accountability</mark>	2.0 OH&S Roles and Responsibilities	3.0 Consultation and Participation	4.0 Hazard Identification and Risk Assessment	5.0 Ergonomics	6.0 Legal and Other	Requirements 7.0 OH&S Objectives	8.0 Competence and Communication	9.0 Document Control	10.0 Eliminating Hazards and Reducing Risks	11.0 Chemical and Physical Agent Management	12.0 Procurement / Contractor / Outsourcing Management	13.0 Change Management	14.0 Emergency Preparedness and Response	15.0 <mark>Maintenance</mark>	16.0 Monitoring and Analysis	17.0 Internal Audit Program	18.0 Management Review 19.0 Incident, Non-conformity	and Corrective Action 20.0 Continual Improvement
ISO	World Class (Sustainability) Advanced (ISO)	5																			
,	Standard (Compliance) Developmental II	3																			
	Developmental	1																			

These Elements are outside of the ISO 45001, but are part of STAR.

Multiple Sub-Elements

- Each Element Has Sub-Elements
- Some are driven by ISO 45001
- Some are driven by ANSI Z 10
- Some are driven by OSHA's Program Management Guidelines (1989 and VPP 2020, and RPs of 2016)



These Elements are outside of the ISO 45001, but are part of STAR.

Multiple Sub-Elements

- Chemical and Physical agent management includes
 - Industrial Hygiene
- Emergency planning includes
 - Occupational Health (Medical)
 - Prevention
 - Early recognition and treatment
 - Limiting severity

OPERATIONS
Element #10 -Eliminating Hazards and Reducing Risks
10.1 Hierarchy of Controls
10.2 PPE
Element #11 - Chemical and Physical Agent Management/
//
Chemical Management //
Piping Labeling //
Industrial Hygiene: Qualitative assessment
Industrial Hygiene: Quantitative assessment
Element #12 - Procurement / Contractor / Outsourcing
12.1 Selection
12.2 Orientation
12.2 Officiation
12.3 Operations and hazardous materials /
12.4 Oversight
Element #13 - Change Management / /
13.1 Change Management
13.2 Design Standards
Element #14- Emergency Preparedness and Response
14.1 Medical Prevention
14.2 Emergency Response Plan
14.3 Early medical recognition and treatment
14.4 Emergency Training
14.5 Emergency Response Practice
14.6 Limiting Severity of Injury and Illness
Element #15- Maintenance 23
15.1 Preventive Maintenance
15.2 Regular Maintenance
<u> </u>

Management Accountability – STAR

• Maintains ultimate accountability with top management for the functioning of the OH&S management system.

LEVEL:	<u>1</u> Developmental	<u>2</u> Developmental II
1.2		
Management	1. OH&S	1. Records are maintained of performance appraisals to OH&S
Accountability	performance evaluations occur	responsibilities.
Maintains ultimate	for some <mark>line</mark>	2. Appraisals are reviewed with each employee, at all levels.
accountability with top	managers.	
management for the		3. OH&S metrics are part of management and supervisor
functioning of the OH&S		performance appraisals.
management system and		
continual improvement of		4. OH&S metrics include TRIR and LWCR.
risks and the system.		
		5. Site Level OH&S metrics cascade down to Management and
		Department level metrics.

Management Accountability - STAR

 Maintains ultimate accountability with top management for the functioning of the OH&S management system.

LEVEL 3 Standard

- 1. Annual performance appraisals at all levels include evaluation of performance against safety and health responsibilities as defined in Element 2, (action plan closure rates and enforcing safe work procedures) and written programs and procedures.
- 2. Meeting <u>STAR Objectives</u> as defined in Element 7 Level 3 are part of management's performance appraisal process and the Site level OH&S scorecard.
- 3. OH&S metrics at the department level are part of a Balanced Scorecard or equivalent. Includes 1) closure rate for safety issues, 2) conformance rates, 3) the number of new controls 4) worker participation and recognition, and 5) trend reductions for inspections and observation non-conformances.

Management Accountability - STAR

• Maintains ultimate accountability with top management for the functioning of the OH&S management system.

LEVEL 4 ADVANCED (ISO)

- 1. Accountability to OH&S metrics at the Department Level includes 1) GSSF Objectives and Action Plans 2) CTS Conformance rates, 3) number of new engineering controls 4) risk reduction 5) training completion and 6) incident corrective action 90-day closure verification rate.
- 2. Measurements of Management OH&S performance use additional proactive leading measures, across at least three of the four Balanced Scorecard quadrants. (See Implementation Guide for list of KPIs by STAR Element for consideration).
- 3. Site level OH&S metrics are established for incident trend reductions. (e.g., causal factor, root cause, hazard type and control type trends).
- 4. Accountability to these leading metrics is proactively enforced Management (i.e., set targets, and motivate achieving targets).
- 5. Roles assigned responsibilities have the authority to accomplish Objectives and Action Plans.
- 6. OH&S Metrics include SIF.
- 7. Global STAR Element Owners track many of the OH&S metrics listed in the KPI Implementation Guide.

Management Accountability-STAR

 Maintains ultimate accountability with top management for the functioning of the OH&S management system.

LEVEL 5 WORLD CLASS

- 1. A percentage (%) of management's bonus requires success in proactive and leading safety metrics / measurements.
- 2. Cultural improvement metrics are included in the site level OH&S Balanced Scorecard.
- 3. OH&S Metrics include severity reductions.
- 4. The OH&S Balanced Scorecard has multiple metrics in each of the four quadrants.

Metrics

Measure the Right People on the Right Things
Safety Through Accountability and Recognition



One Number Can Measure
Success

• Run your program like a business.

Leading Metrics are the Best!

When are leading metrics misleading?

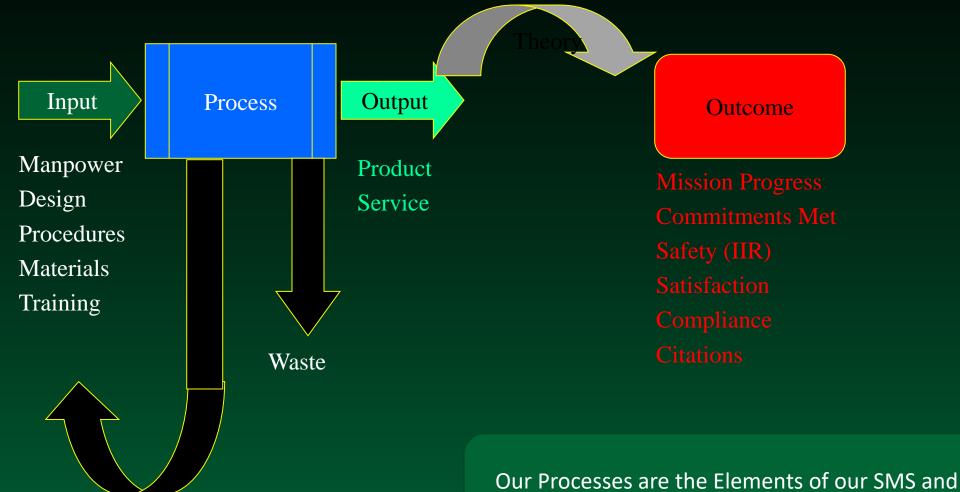
Are KPI's (Key Performance Indicators) the thing?

Do KPI's have to be just indicators?

What Does Deming and Harvard Say?

- Process Metrics
- Balanced Scorecards

Process and Outcome Metrics



Rework

Our Processes are the Elements of our SMS and our Business Systems.

Multiple interrelated metrics

Balanced Scorecard for Safety

Sample

- Budget
- Personnel
- WC

Financial



- Incidence Rates
- SIF
- WorkerParticipation

Customer



- STAR Scores
- STAR Action Plans
- Risk Reductions
- # New Controls

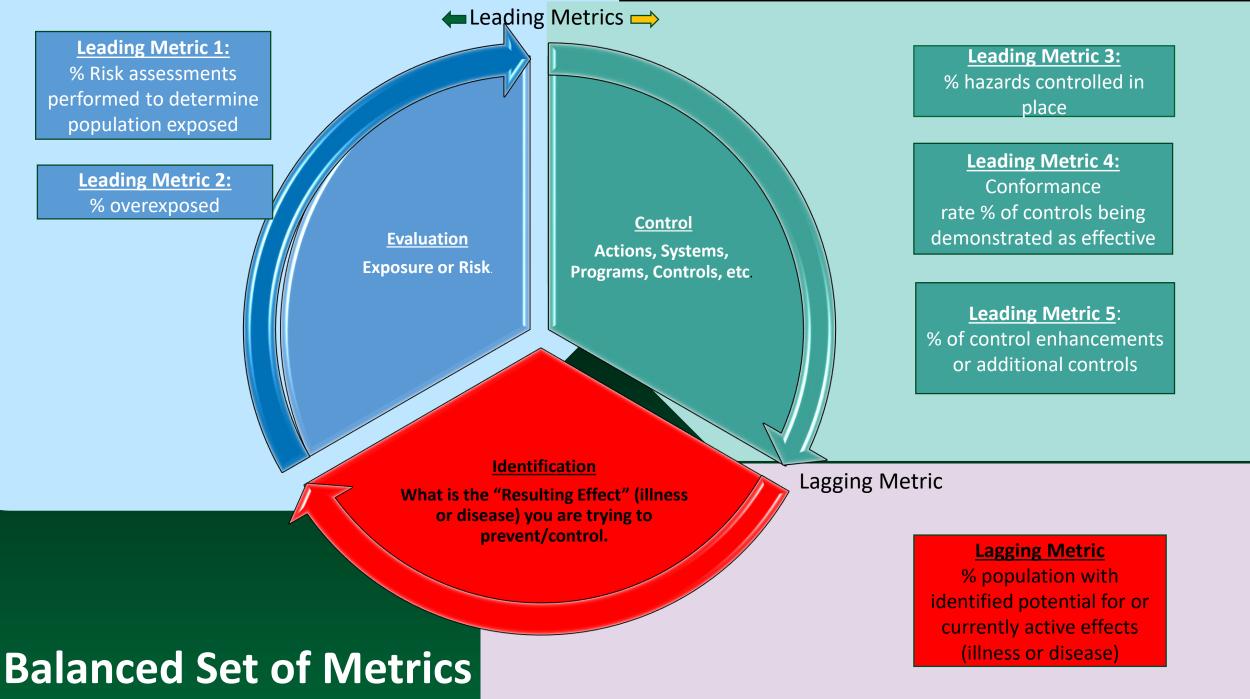
Process



- Training Retention
- Training Attendance
- Closure Rates
- Conformance Rates
- Trend Reductions

Learning and Growth





(IH Leading Health Metrics)

Management Accountability

 Hold managers, supervisors, and employees accountable for meeting their responsibilities, so that essential tasks will be performed.

(OSHA PMG)

Leading Metrics

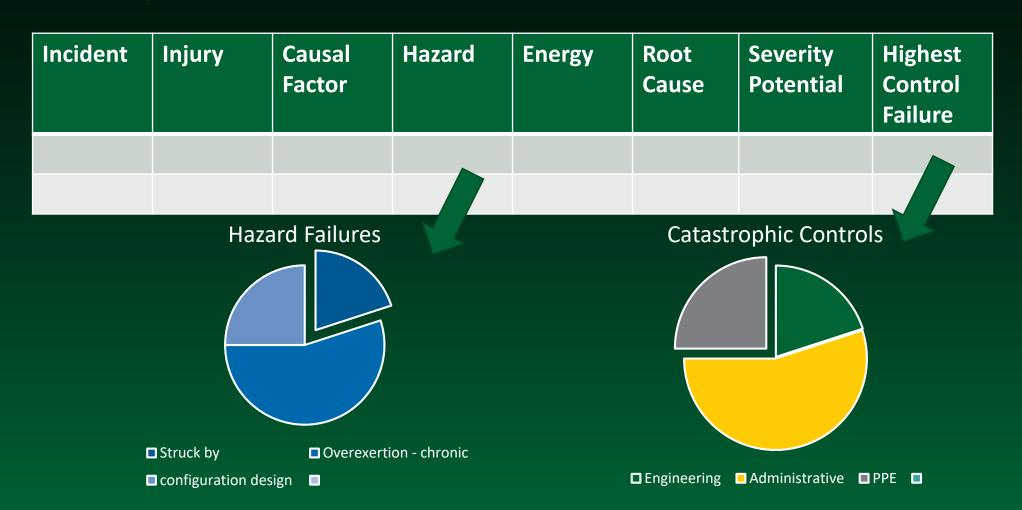
- Closure Rates
- Conformance Rates
- # of New Controls
- Trend Reductions: inspections+root cause
- Worker Participation
- Risk Reduction

Lagging Metrics

- TRIR
- LWCR (DART)
- SIF
- Worker's comp

For a list of metrics, review my article in June 2018 *Professional Safety*: "The New Measure of Safety Performance"

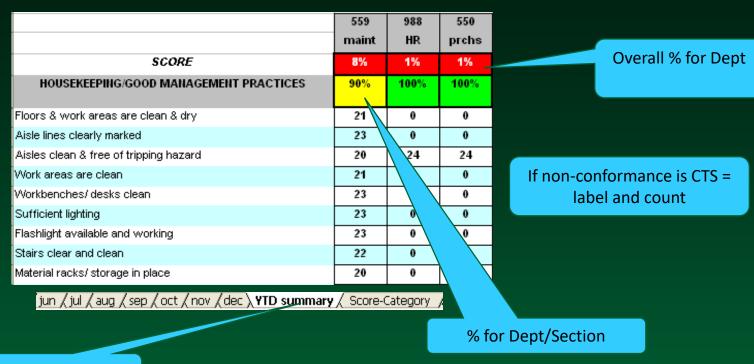
Incident Data Collection and Analysis – Risk Based



Trend Analysis

- Inspection and Observation non-Conformances
 - The YTD-Summary Sheet is an aggregate of all the information collected in the Monthly sheets.

All Depts.,
Safety items and
scores



YTD-Summary

Supervisor's Scorecard

- Part of Supervisor's Performance Appraisal
- Part of Team based recognitions for workers.

Monthly Safety Data	# of E	vents		hanges d/Needed		ate (From Closed)	(Contro (% en	veness ol Type) g, sub, m)	Conform	ance Rate	
EHS Report Topics	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Description
Risk Assessment Changes to Controls	2 5	10	69	10	16%	100%	61%	100%			
Monthly Incident Review	8	10	35	10	25%	100%	86%	100%	63%	100%	Still closed at 90 days
Monthly Inspections/Descrepancies	20	10	100	10			58%	58% 100%		100%	number of findings, vs total number of obseravtion
Monthly Observations (Optional)	20	10	33	10		_			93%	100%	Number at risk vs total number of observations.
Communication to Supervisors (EHS Tool	21	10	189	10	29%	100%	77%	100%			
EHS Action Plan Status	5	10	0	10	60%	100%					
EHS Rewards & Recognition	40	10									
Incidence Rate (Incident Frequency)											
Incidence Rate (Lost Work Day Rate)											
·											· ·

Measuring the right things and people

Who should be measured on the closure rate of inspection findings?

- 1. Safety only
 - No
- 2. Maintenance only
 - No
- 3. Operations only
 - No
- 4. The supervisor and manager of the area (unsafe condition) or person (unsafe behavior)



Employee Participation

• Engagement is a superior level of participation

Participation	Engagement
Attend Safety committee	Chair safety committee
Perform a safety inspection	Revise the inspection checklist or schedule
Perform an accident investigation	Suggest corrective actions based on another department's lessons learned

Ex: Worker Involvement Options

- Study a video and modify the checklist
- Train other inspectors
- Change the schedule (more or different)
- Do inspections
- Prioritize high risk findings
- Determine high risk closure deadlines
- Do the trend analysis
- Recommend G&Os

ID Inspection Categories and Criteria Train the Inspectors Schedule the Inspections DO THE INSPECTION Track Inspection Findings Measure Closure Rates Do Trend Analysis **Develop Goals and Objectives**

Notice: nothing about incidence rates!

Recognition

- Individual
- Ex: Passport
 - Multiple activities, each gets approved
 - Accumulates points.
 - Into as part of new employee orientation

Participate on an inspection
Attend a safety committee
Turn in a suggestion
Turn in a near miss
Do a behavior observation
Etc.

Team

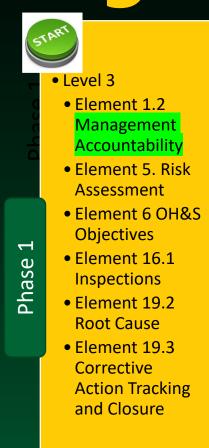
- Conformance Rate
- Critical to Safety (CTS)
 Conformance Rate
- Training Retention
- Etc.

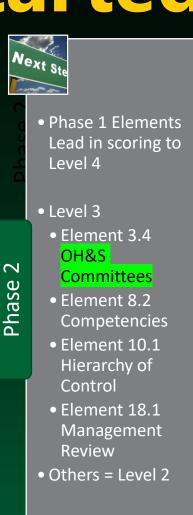
Awards can be monthly or quarterly

Food, points, etc.

Getting Started

Phase Timetables Are Based on Resources and Leadership Directives







If possible, start with Management Accountability, then employee engagement, before recognition!

Elements Still Missing?

- Safety Committees
 - Oregon
 - https://osha.oregon.go v/OSHAPubs/0989.pdf



Objectives

- ✓ ISO 45001 Strengths and Weaknesses
 - ✓ Comparisons to other SMS
 - ✓ Where are the Implementation Strategies?
- ✓ Maturity Path Model:
 - ✓ PEP
 - ✓ Form 33 (Sharp)
 - ✓ Safety Through Accountability and Recognition (STAR)
- ✓ Metrics are the Key
 - ✓ If the Right People are Measured on the Right Things.
 - ✓ Safety Through Accountability and Recognition



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Safety Through Accountability and Recognition

Working together for a safer, stronger future.

YOUR FEEDBACK IS IMPORTANT

Session Evaluations can be completed: