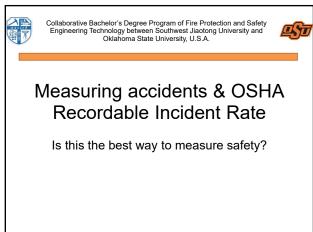




全文	Collaborative Bachelor's Degree Program of Fire Protection and Safety Engineering Technology between Southwest Jiaotong University and Oklahoma State University, U.S.A.	<u>Q</u>
	FPST 3013 Safety Management	
	Measuring Safety Success	

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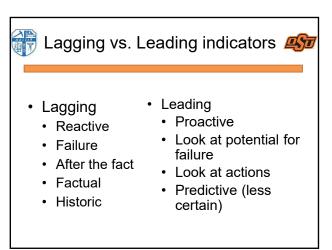


Collaborative Bachelor's Degree Program of Fire Protection and Safety Engineering Technology between Southwest Jiaotong University and Oklahoma State University, U.S.A.
Measuring accidents & OSHA Recordable Incident Rate
Is this the best way to measure safety?





Collaborative Bachelor's Degree Program of Fire Protection and Safety Engineering Technology between Southwest Jiaotong University and Oklahoma State University, U.S.A.	<u>eş</u> a
Zero Accidents	
Is this a reasonable goal?	
J	











#### Organizational Approach



- A mission is a broad idea of what you are striving for...what you want to be. Missions for organizations don't typically change once they have been established unless changes in other factors dictate such. "We want to continually improve our safety".
- Objectives are basically milestones. Once you reach a milestone, you set another one. "Reduce OSHA recordable rate by 15%". This is not something you just go and do. There are multiple ways to accomplish this.
- Strategies are plans to accomplish the objective "implement inspection program for facility". This is also something that you do not simply go and do. There are numerous pieces to implementing an inspection program. This is one strategy that can have a positive effect on you accomplishing your objective which pushes you towards fulfilling your mission.
- Tactics are action-based. "Develop written inspection process". "train selected employees in inspection process". "Conduct quarterly inspections"... These are things that you actually go and do.

7

Principles & Values	the safety and health of o workplace. No job is so it	ur employe	es. Every Em	any's principal responsibility is ployee is entitled to a safe n a safe manner. If its not
Vision/Mission		and industry	best practices	er that is consistent with . We will constantly strive to people, our property and the
Objectives	Reduce Incidents by 15% year – ultimately striving f injuries		Reduce our di	rect costs of accidents by 25%
SMART Goals	Complete 100% of OSHA required training for all 360 employees by the end of the 2018	toolbox ta individual crews. Ea member v responsib	production ach crew	Conduct Daily Housekeeping inspections at the beginning and end of each shift and correct any hazards noted before continuing work.
Strategies (Mgmt Systems)	Training Policies Funding Training Matrix Learning Objectives	Policy Time and Labor Re	Scheduling lations	Policy and Procedure Production Planning Maintenance Systems
Tactics	✓ Develop Materials ✓ Train trainers ✓ Conduct Training ✓ Track in LMS	✓ Develor ✓ Train 7 ✓ Docum ✓ Tracki	rainers nent forms	✓ Schedule Audits ✓ Train Auditors ✓ Develop Checklists ✓ Track Corrective Actions

8



### How do we measure individual safety performance?



- Top Managers
  - Personal Behavior
  - · Safety Activities
  - · Statistical results of their group (be careful here)
- Supervisors
  - · Personal behavior
  - · Safety activities within span of control
- Employees
  - Personal behavior
  - · Participation in safety activities

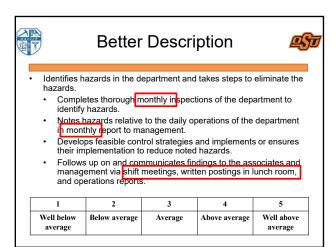
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#### Is this a good example? Performance Objective for a 1st line Supervisor Safety and Environmental: Takes definitive action to support safety and environmental practices and programs to eliminate hazardous conditions and unsafe associate practices. Circle the number that best describes the level of associate 1 2 3 4 Well below Well above Below average Average Above average average

10



11



#### Measurement Tools

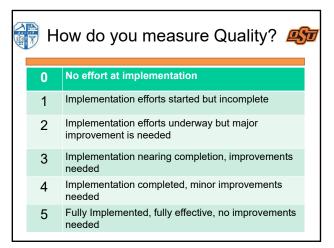


- · Two categories of measurement tools
  - Activity
    - # of inspections
    - # of Investigation
    - · # of persons trained
    - # Observations
    - · Quality of Activity
  - Results
    - · Inspection Results/score
    - · Sampling Results
    - · Cost reductions or avoidance





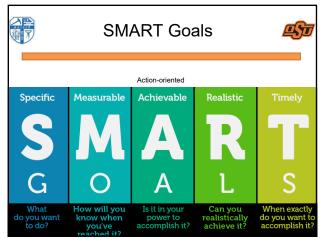
	Levels of	<u> </u>
Does Not Meet Standards	Meets Standards	Exceeds Standards
1	2	3
<ul> <li>Does not complete or does not turn in without prompting or by the last Friday of the month, monthly departmental inspections.</li> <li>Does not complete accident investigations within the same shift.</li> </ul>	<ul> <li>Completes and turns in, without prompting, monthly departmental inspections by the last Friday of the month.</li> <li>Completes accident investigations within the same shift of the accident report.</li> </ul>	Completes additional inspections, turns them in early, or provides suggestions for improving inspection scores within his/her own department.     Completes investigations, provides feedback to other shifts on what happened, and follows up on recommendations.











16



#### Writing SMART Goals



- Start with an Action Word (Verb)
- Specify a <u>single</u> key result that is to be accomplished
- · Specify a target date
- Specify what and when
  - · Avoid why and how

17



#### SMART or NOT SMART?



- Develop and implement a program to train and license fork truck drivers
- · Improve safety performance next month
- Conduct weekly inspections and ensure hazards are corrected within 24 hours
- Our Goal is ZERO recordable accidents
- · Reduce Recordable accidents by 5%
- Complete weekly tool-box talks with 100% attendance.
- · Investigate all incidents















T C	Collaborative Bachelor's Degree Program of Fire Protection and Safety Engineering Technology between Southwest Jiaotong University and Oklahoma State University, U.S.A.	<u>Ø</u>
l	How do we measure Safety Performance?	
İ	Leading Indicators	
İ	Under the employees' control With SMART Goals	
l	With OWATT Goals	