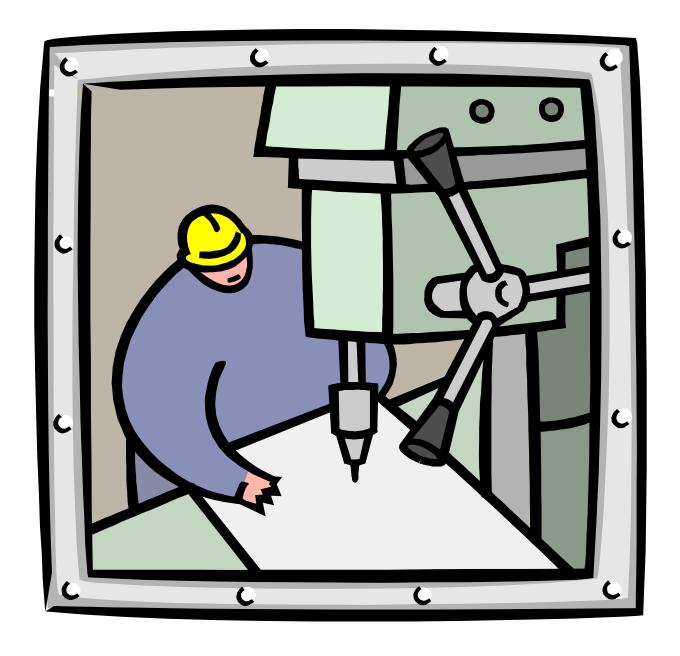
BEHAVIOR-BASED SAFETY



Dan Petersen on behavior-based safety

"...as I look at what we, as safety practitioners, have done to the best concepts for possible improvement, it seems we have done everything possible to make sure this (the behavior based safety) approach will fade away -- just another "safety program of the month." Maybe the answer is to learn how to manage safety and health first, then implement these behavior-based approaches."

There is no universal agreement about behavior-based safety.

In a recent UAW article we read, "Most behavior based safety programs are fundamentally outdated and erroneous theories repackaged for modern marketing. Salesmen for behavior based safety programs claim to eliminate workplace injuries and improve relationships between supervisors and workers. But often times, these safety programs set up elaborate mechanisms to observe, coach, reward, and discipline workers. Behavior based safety programs appeal to many companies because they make health and safety seem simple, do not require management change, focus on workers, and seem cheaper than correcting hazards. The programs ignore the most appropriate methods for eliminating health and safety hazards." (On-the-Job Safety, Feb-Mar '99)

Could leadership-based safety be the key?

Behavior-based safety relies on trust between labor and management. Management and labor must each earn that trust. Management is important, but without strong leadership, you can manage all you want, but all you get is a nice set of safety manuals sitting on a shelf collecting dust. Labor is important, but without leadership, all you get is a series of failed attempts at system improvement. Leadership is key.

This material, or any other material used to inform employers of compliance requirements of OSHA standards through simplification of the regulations should not be considered a substitute for any provisions of the Occupational Safety and Health Act of 1970 or for any standards issued by OSHA. The information in this publication is intended for training purposes only.



Business is Behavior

The ABC's of BBS

Antecedents - According to Thomas Krause, antecedents are preexisting sensory or intellectual input that trigger behaviors and influence decision-making.



- Tell us what to do to receive a consequence
- Can be tangible/concrete or intangible/abstract
- Only as powerful as the consequences that support them

Examples

Behavior - According to E. Scott Geller, behavior refers to <u>acts</u> or <u>actions</u> by <u>individuals</u> that can be *observed* by others. In other words, behavior is what a person does or says, as opposed to what he or she thinks, feels, or believes.



- · A dead man can't do it
- · Must be observable, measurable
- · Any time, any where, any body

Examples

Consequence - According to Aubrey Daniels, a consequence is simply what happens to the performer as a result of the behavior. A consequence can be:



- **Positive or negative**. Does the consequence help or hurt from the performer's point of view?
- Immediate or future. When will the consequence occur?
- **Certain or uncertain**. What's the probability that the performer will experience the consequence?

Examples

Motivation Strategies: Behavior is a Function of Consequences

Every culture is a culture of consequences

Consequences that increase desired behavior

<u>Positive reinforcement</u> - To be effective, it must increase desired behavior. You work to get something and may perform far beyond minimum standards. This is the only strategy that work to increase discretionary effort. The focus is on success.



- Worker performs to receive the consequence
- Worker may perform far beyond minimum standards discretionary effort
- The only strategy that works to increase discretionary effort
- Focus is on excellence success based
- If you report a hazard, you are recognized."
- "If you prevent an injury or save money, you are rewarded."

Examples:		

Negative reinforcement - Intent is to increase desired behavior. You work to avoid something you don't want and usually perform only to minimum standards. This strategy may work well if the focus is only on compliance.



- Worker performs to avoid the consequence fear based
- Worker performs to minimum standard just enough to get by
- Can work well if the focus is on compliance
- "If you wear that eye protection, you won't get injured."
- "If you comply with safety rules, you won't be disciplined."

Examples:		

Motivation Strategies: Behavior is a Function of Consequences

Every culture is a culture of consequences

Consequences that decrease desired behavior

Punishment - Intent is to stop undesired behavior. You get something you don't want when you misbehave. Punishment does not predict what the replacement behavior will be. It is usually unintentional.

- You get something you don't want when you misbehave.
- Does not predict what the replacement behavior will be.
- Is usually unintentional in organizations
- "If you engage in horseplay, you will be suspended from work."

Examples:	
Extinction - Withdrawal of positive reinforcement. You work in a culture that ignores performance. There is no relationship between performance and consequences. It is epidemic organizations. It doesn't matter how hard you work.	: in
 Worker eventually performs without expectation of consequences (other than wag Person is ignored - no relationship with management Is epidemic in organizations "It doesn't matter how hard I work around here." "Apathy is rampant, but who cares." 	es)
Examples:	



To be effective, consequences should be...

Soon - c	occurs	immediately	after	the b	ehavic	r/perfo	rmance.
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"Thanks, but when did I do this?"

- Does the BBS plan recognize performance immediately or as soon as possible?
- The more time it takes to recognize, the more significant the recognition must be.

Sure- employees know (1) they will be recognized, and (2) why they're being recognized.

"Guess I was just lucky."

- Does the BBS plan specify precisely what must be done to get the award?
- Do employees generally understand what's required to get recognized?
- ☐ When asked what it takes to earn the reward, do most reply with "I don't really know"?
- Does the BBS plan limit the number of rewards any one person can receive during a given period? If the reward is always given to the "best" employee, the same person may receive the reward most of the time.
- Does the BBS plan allow a pass-around reward? When this occurs, the reward is not contingent on behavior.

Significant - perceived as more than an entitlement. Significance is defined by the receiver.

"We don't have to recognize them...that's what they get paid to do."

- Does the BBS plan assume that the same form of recognition is desired by all?
- The receiver of a reward defines the nature (positive/negative) of the reward.
- One employee's reward might be another's punishment.

Sincere - genuine appreciation or disapproval. You really mean it. Motives for recognizing are not questioned.

"Recognize in public, reprimand in private!"... Any problems with this principle?

- ☐ Is recognition given as a matter of policy or genuine appreciation?
- ☐ Is the purpose of the recognition to make management, or the employee look good?



The 15 Secrets of Effective Recognition

- 1. Recognize as **soon** as you can after the behavior occurs.
 - The longer you wait to recognize, the less effective it will be, and the "bigger" the reward must be to achieve the same effect.
- Be <u>spontaneous!</u> You don't need to plan how to recognize someone necessarily. Unplanned recognition is more likely heart-driven then policydriven.
- 3. Praise should be **subtle.** Recognition need not be public or "loud."
 - Recognition in private has been shown to be generally more effective than public recognition.
 - Motives are less likely questioned when recognition is not conducted as a public spectacle.
 - Safety committees: Maximize opportunities for line employees, supervisors, and managers to recognize and be recognized. Stay in the background.
- 4. Employees must be <u>sure</u> they will be recognized. If you promise them something, follow through with the promise.
- 5. Keep it <u>simple</u>. A simple "attaboy" or "attagirl" may be all that is required to be effective. The best recognition may not require tangible rewards like money. Keep it simple make it fun!
- 6. Be **specific**. Pinpoint each individual's specific achievement.
 - Emphasize the positive impact the individual's performance has had on the organization.
 - Use the "dead-man's test" (If a dead person can do it, don't recognize it.)

- 7. Develop **standards** of achievement for recognition.
 - Recognize for achieving specific behavioral and performance criteria rather than being first, best, highest, fastest, most improved.
 - Be careful recognition is based on fact, not just feeling. Use a point system if you can.
 - Don't make the program a game. Don't establish recognition schemes that reward for being lucky. Recognize employees for what they earn, not what they win.
 - Clearly communicate recognition/reward criteria to everyone.
 - Recognize behaviors over which employees have control.
- 8. Be <u>sincere</u> when recognizing. The more heart-driven the recognition, the more likely it will affect the heart. Isn't that what recognition is all about? Genuine heart-felt recognition is usually much more effective than policy-driven recognition.
- 9. Recognition should be <u>super</u>.
 - The significance of any recognition is determined by the person who receives the recognition, not the person giving the recognition.
 - It's not the object that means anything: It's the meaning we give the object!
 - You know the recognition has been significant in the heart and mind of the receiver when it increases the frequency of desired behavior.
- 10. Let employees choose from a <u>selection</u> of tangible rewards. Involve employees at every phase of program development. Don't make the mistake of thinking one item works for everyone. It won't.

- 11. Be **spirited** when you recognize. Don't be afraid to show how happy you are about the performance of your employee.
- 12. You're motivated to recognize for <u>selfless</u> reasons. The purpose of the recognition is to highlight the great performance of your employee. It's not to show anyone how wonderful you are.
 - Recognition that's motivated by selfish reasons will be perceived as disingenuous.
 - It's all about the employee, not you.
- 13. It's more effective to <u>single</u> out individuals and recognize their personal achievement. If you recognize a group try to mention each individual's contribution.
- 14. Keep your recognition program <u>stable</u>. Don't change the rules of the game too often. People need to know that the reward and recognition they're working towards won't disappear before they're awarded.
- 15. Be <u>sensitive</u> to the wishes of the person you're recognizing. You don't want to recognize a person in a way that they may not want or appreciate.
 - One lady promptly quit her job as a safety committee chairperson after being recognized for her great work over the previous year. When asked why she quit the position, she said, "I never want to be recognized in front of people like that again!"

Bottom Line: Management is an organizational skill – Leadership is a relationship skill

Micro Approach to BBS - Improvement is achieved primarily by changing the behavior of the hourly employee.

Behavior-Based Safety refers to the use of applied behavior analysis models to achieve continuous improvement in safety performance. In-depth research about what works and what doesn't. According to Krause, safety programs fail because they rely too much on antecedents -- things that come before behavior -- safety rules, procedures, meetings, and so on.

Thomas Krause - BST ABC Steps in the Behavioral Safety Process

The Safety Improvement Process:

- **1. Identify critical problem behaviors.** These become action items to work on.
- 2. Identify root causes. The "basic things" that need to be fixed to eliminate the problem.
- **3.** Generate potential actions. Think of as many solutions as possible.
- **4. Evaluate possible actions.** Choose those that are most productive.
- **5. Develop an action plan.** To carry out the chosen solutions.
- **6.** Implement an action plan. Carry it the change. Limit variables.
- 7. Conduct follow up. Problem solved? Measure and evaluate.

DuPont's Safety Training Observation Program (STOP)

STOP for Supervisors. A comprehensive training program that teaches managers, supervisors, and team leaders how to become more skilled observers of unsafe acts, to take action to prevent their recurrence, and to encourage safe work practices.

STOP for Employees. Teaches employees how to observe and audit themselves to prevent injuries and improve safety performance.

STOP Audits. (interdependence).	(independence) and	observation and feedback to peers	

People tend to become what the most important people in their lives think they will become.

Macro Approach - Permanent improvement is achieved through cultural change

Michael Topf's (Topf Process)

- 1. **Assess and analyze the culture.** What belief systems are in place?
- 2. Educate and train to affect attitudes for line managers, supervisors, employees
- 3. **Encourage structured involvement of all employees** in problem identification and problem solving
- 4. **Reinforce key concepts.** Awareness, responsibility, self-observation, self-management.
- 5. Provide ongoing support and commitment
- 6. **Observe behaviors and provide feedback.** Tailored to specific needs of the workplace.

Apply strategy to all organizational levels



- 1. Self Level Personal responsibilities/accountabilities. Self attitudes/behaviors
- 2. Peer Level Peer interaction and support for safe attitudes/behaviors
- 3. Leader Level Consistent safety commitment/communications/messages
- 4. **Organizational Level** Culture with values, commitment and behaviors that reflect clear vision.

Focus on process measures, not results measures

According to Michael Topf, "In many organizations, an over-reliance on safety-related OSHA statistics obscures the importance of more fundamental culture change methods.

"Given the importance OSHA places on record keeping, such outcome statistics cannot of course be ignored in assessing progress toward a safer workplace. But the focus of statistics and measurement needs to be on process measures, such as changes in attitudes, values, and behaviors that directly influence OSHA measureables. Similarly, programs and incentives need to be based on what people think and do, measures not easily captured on the OSHA 200 log."

According to Michael D. Topf, there are nine common obstacles to cultural change:

- 1. Management has assumed responsibility for safety and supervisors play the role of "safety cops." Safety in such workplaces is perceived as a negative.
- 2. The safety message is not getting out because downsizing has reduced the number of individuals available to communicate it. Meanwhile, production demands are on the rise increasing pressure to cut corners.
- 3. The press of meetings and other administrative tasks means less time for supervisors to spend on safety training and reinforcement.
- 4. Supervisors are often poor role models, taking shortcuts themselves and failing to follow company and OSHA rules.
- 5. Supervisors ask employees to take risks, either implicitly or explicitly.
- 6. Supervisors condone or overlook risk-taking behavior until an injury occurs, and then they counter it with discipline.
- 7. Line employees hold on to tenacious, counterproductive beliefs such as: "Accidents don't happen to me."
- 8. There is a lack of trust between labor and management; unresolved conflicts erode trust and communication.
- 9. Fear of job loss is prevalent and negatively impacts morale and job performance.

Each of these nine obstacles, once accepted by a majority of the organization, becomes part of the collection of beliefs and day to day behaviors that constitutes the organization's culture.

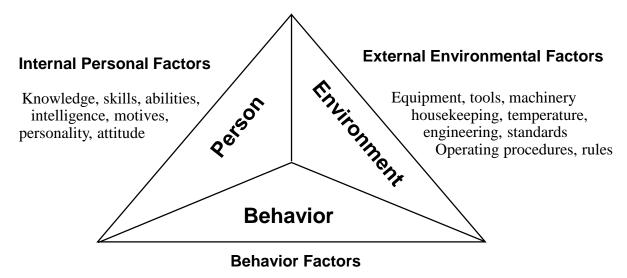
Core beliefs that influence culture on the personal and organizational level.

- All injuries are preventable.
- All employees are responsible for their safety and the safety of their co-workers
- Management is ultimately responsible for the safety of all employees.
- Working safely is a condition of employment.
- All risks will be identified, addressed, and managed.
- Educating and training employees to work safely is essential.
- Preventing injuries is good business a profit center activity.
- Safety, production, cost, and quality depend on each other.
- Safety will never be compromised for production or convenience.
- Every employee has the obligation to shut down an unsafe operation.
- The continuing health and wellness of each employee is vital to our long-term success.

Integrated approach - Culture and individual behavior are both important components and reflect "active caring"

E. Scott Geller: Safety Performance Solutions (SPS) - Total Safety Culture

An "actively caring" Total Safety Culture requires continual attention in three domains.



Complying, reporting, coaching, recognizing, communicating, actively caring

Geller's Do-It Process

Define critical behavior(s) to increase or decrease

Observe target observable behaviors during the pre-intervention phase to determine baselines, set goals, understand influences on target behaviors.

Intervene to change the target behavior(s) in desired directions.

behavior(s) during the intervention program.				

Geller's Seven Principles that Define Behavior-Based Safety

1. Focus interventions on observable behaviors.

- Why? You can be objective about behaviors.
- Address it independently from attitudes, opinions.

2. Look for external (system) factors to both understand and improve behaviors.

• Easier to define and correct, objectively, change directly. Independent of feelings.

3. Direct behavior with activators (antecedents) and motivate behavior with consequences.

- Activators tell us what to do...Consequences are what we get out of it.
- Activators are only as powerful as the consequences supporting them.

4. Focus on positive consequences to motivate behavior.

• It results in behavior beyond compliance, increases frequency of desired behaviors, improves morale.

5. Apply the scientific method to improve interventions.

• Rather than "common sense," or intuition, which is based on selective listening and interpretation, and is usually biased.

6. Use theory to integrate information but not to limit possibilities.

- Don't design to answer the question, "What will happen if we do this?"
- Rather, answer the question, "Is my theory correct?"

7. Design interventions with consideration of internal feelings and attitudes.

- Intervene to increase feelings of control, accomplishment, personal freedom.
- The employee works to achieve pleasant consequences, not to avoid unpleasant consequences.

Dan Petersen's Three Basic Strategies to Influence Behavior

1. To change attitudes in the belief that our behavior is consistent with our attitudes.
How can you accurately determine an attitude?
2. To build a psychological climate in which people will choose to behave as we wish, since that behavior helps to satisfy their current needs (We call this motivation).
What's the difference between a tough controlling culture and a tough caring culture?
3. To modify behavior through the systematic use of reinforcement following behavior to influence future behavior.
What are the behaviors we want to modify?

Traditional program-oriented safety management

- Relies primarily on Strategy #1. Emphasis on antecedents to influence behavior
- Motivation avoid negative consequences.
- Occasional negative reinforcement discipline and loss of rewards.

Contemporary behavior-based safety management

- Relies primarily on Strategies #2 and #3. Emphasis on consequences to influence behavior. Does not attempt to measure (but does not ignore) attitudes because it's very complex.
- Motivation. Receive positive consequences
- Frequent positive reinforcement frequent recognition and Occasional reward.

What Behavioral-Based Safety does not do...

✓	Does not turn safety over to any one level of the organization. It does not shift responsibility or accountability away from management to the employee.
	Why is it dangerous to promote the idea that "our employees own the safety program"?
√	No relief from the basic truth that safety is line management's responsibility. Management still has legal responsibility for safety.
	Why does OSHA Law hold the employer accountablenot the employee?
√	Not a quick fix. The underlying system weaknesses must be improved.
	Why does OSHA conduct accident investigations? Why should employers not investigatebut rather analyze incidents and accidents?

What it takes to succeed: Dan Petersen

Dan Petersen states that..."one of the fundamental tenets of safety is that safety systems can look like almost any thing, as long as these systems meets two key criteria.

Two key criteria:

- 1. There is a system of accountability in place that defines roles, ensures knowledge to fulfill the roles at each and every level from worker to CEO, measures role fulfillment; and has rewards contingent upon role fulfillment.
- 2. The system asks for, allows for, requires, and ensures **participation** at each level.

BBS is not BS...What does it take to work?

Behavior-based safety must
1. Define critical behaviors at <u>each</u> level of the organization - bottom to top.
2. Ensure each person clearly understands required behaviors
3. Accurately identify and measure the presence of behaviors
4. Reinforce appropriate behavior with soon, certain, significant, and sincere recognition.



Elements of a Behavior-Based Safety System

1. Formal standards for behavior and performance

- Vision, mission, values, priorities
- Policies, Plans, Processes, Procedures, Practices
- · Clearly communicated and understood by all

2. Resources to meet/exceed standards

- Physical = tools, equipment, materials, workstations, facilities
- Psychosocial = workload, time, education, training, scheduling, culture, leadership, trust

3. A system of measurement

- Measurement = Observation + quantification
- Criteria. Performance evaluated against established criteria.
- Formal observation and feedback

4. Effective consequences

- Soon Certain Significant Sincere
- Must increase desired behaviors.

5. Appropriate application

- Selection criteria. How are employees selected for recognition and reward?
- Presentation. How is recognition presented? Who what where how when?
- Fairness. Consistently applied laterally, vertically

6. Continual evaluation of the system

- The recognition system is married to the accountability system
- Analysis/evaluation headed up by Safety committee?
- Improvements designed by safety coordinator?
- Improvements implemented by line management?

Not knowing why things get better or worse is always a problem for a business. If it gets better "for no reason," later it will probably get worse "for no reason." ... The point is, it's not enough to know that something works. It is vitally important to know why it works. (Aubrey Daniels, Bringing Out The Best in People, p. 14)