

A black silhouette of a city skyline with various skyscrapers of different heights and shapes, set against a dark background.

SAFESTART

HUMAN FACTORS

CONFERENCE

H_fMS

Human Factors Management System (A Standard?)

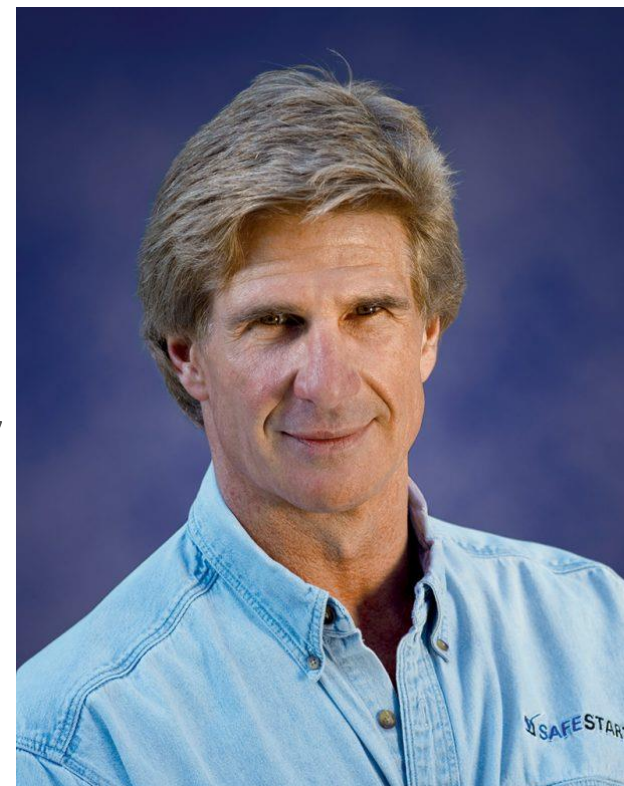
Tim Page-Bottorff, CSP, CIT

Senior Consultant

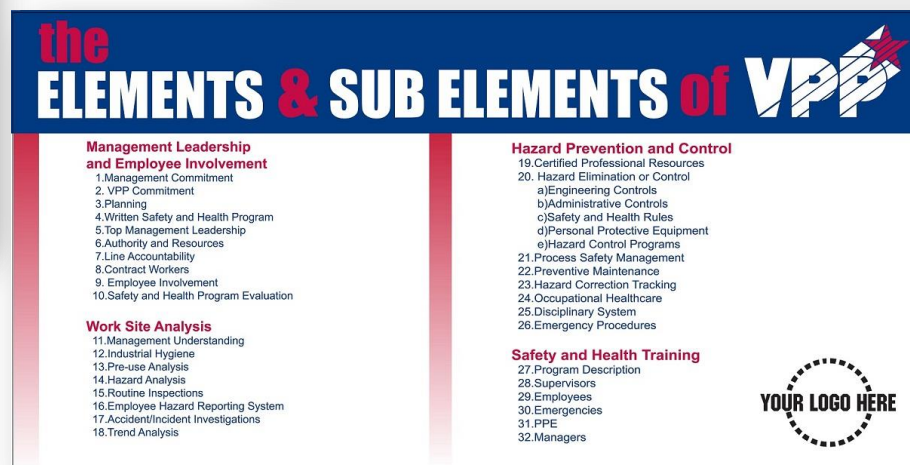
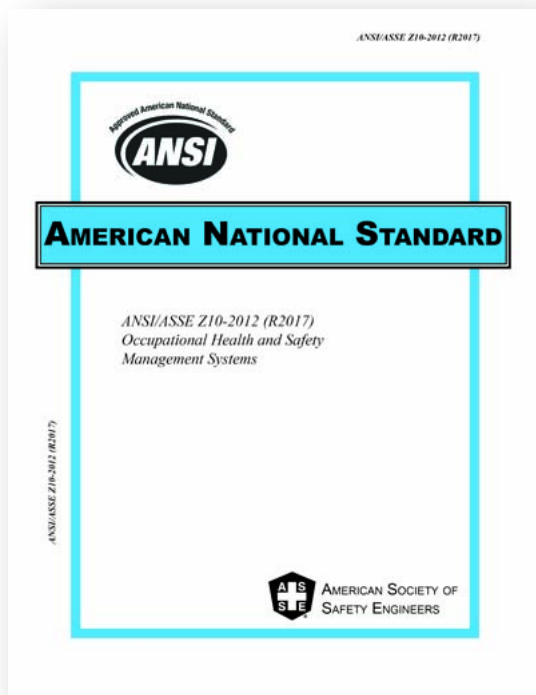
SafeStart

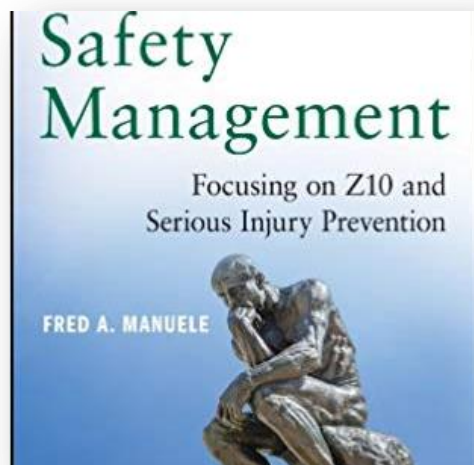
Introduction & Overview

- Brief Intro to ANSI Z-10
- Brief Intro to ISO 45001:2018
- You should Know James Reason, Danny Peterson, Thomas Krause, Scott Geller, Sydney Dekker, and Larry Wilson
- Integrating Components with a Gallery Walk
- Workshopping Your Input for: Plan, Do, Check, Act

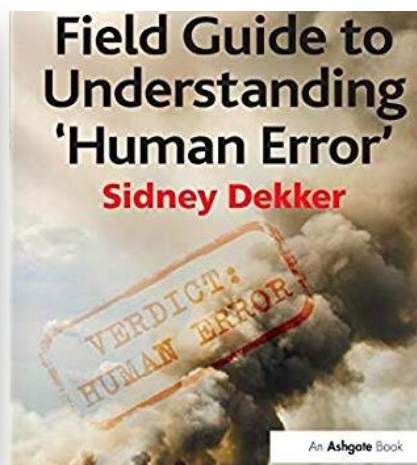


So Many to Choose From

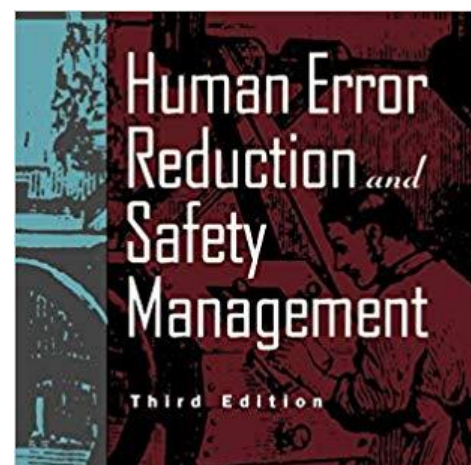




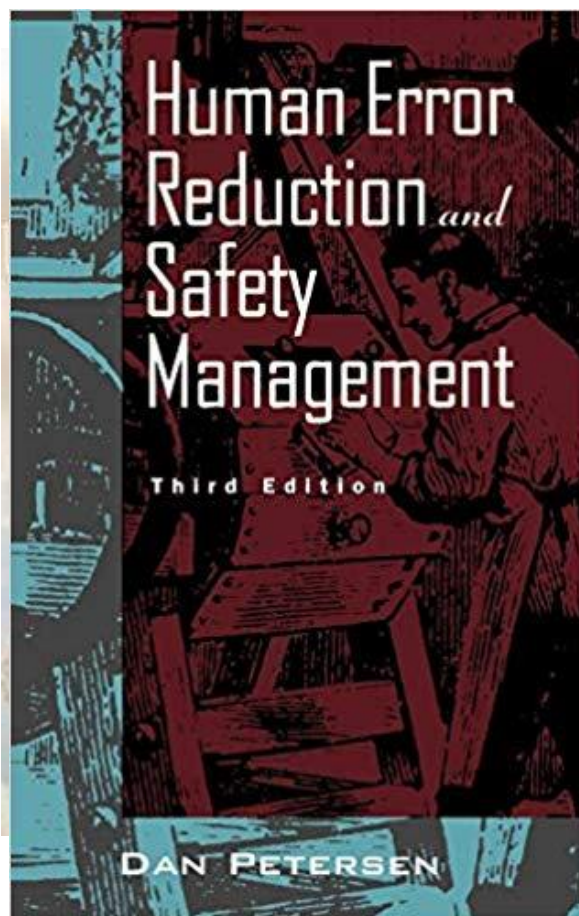
Fred Manuele
ANSI Z10 Safety
Management



Sydney Dekker
Understanding
Human Error



Danny Peterson
Human Error Reduction &
Safety Management



- 01 | Fred Manuele
Chapter 4
Human Error
Reduction
- 03 | Danny Peterson
Safety is a
People Problem

- 02 | Sydney Dekker
Great
Explanation of
Human Error

The Use of Behavior Based Safety as a Blame Tool

Krause and Geller Got a Bad Wrap, Reason and Dekker Gathered Steam

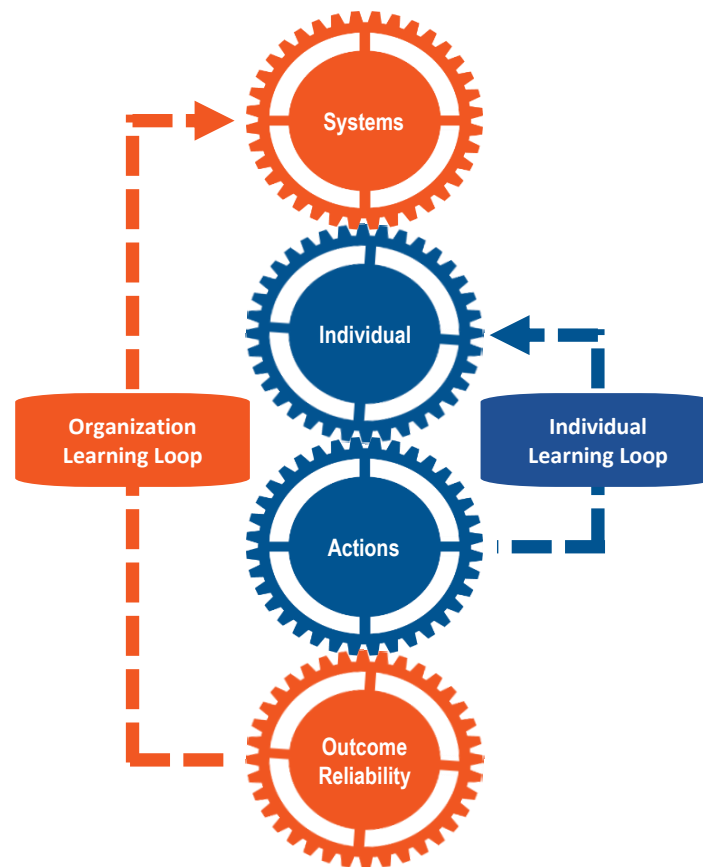
- Proponents saw drastic reduction.
- Opponents saw it as a blame game.
- HOP happened and Heinrich was lost or wrong.
- Larry Wilson wanted to create a solution to fix mistakes
- Moving forward, everyone starting to compete in the human Factors space, there was no integration.

In industry, **human factors** (also known as ergonomics) is the study of how **humans** behave physically and psychologically in relation to particular environments, products, or services. - Ergonomists

Human factors is an interdisciplinary area of psychology that focuses on a range of different topics including ergonomics, workplace safety, **human** error, product design, **human** capability, and **human-computer** interaction. - Psychologists

Human Factors Framework

1. Drive engagement and provide people with easy & portable tools with techniques for reducing unintentional safety errors and improving human performance “in the moment”
2. Improve group communication skills by introducing a simple, common and positive language for discussing safety & risk
3. Utilize these new communication skills, tools & techniques to provide more and better predictive inputs (leading indicators) for improving both outcome reliability in workplace systems **and** driving improvements in overall climate/culture



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OSHA Safety Management Systems Basic Tenants Includes SHARP and VPP



Listed Elements:

1. Management Leadership
2. Worker Participation
3. Hazard Identification and Assessment
4. Hazard Prevention and Control
5. Education and Training
6. Program Evaluation and Improvement

ANSI Z10 Basic Tenants

✓ Listed Elements:

1. Management leadership and
2. Employee participation;
3. Planning;
4. Implementation and operation;
5. Evaluation and corrective action; and
6. Management review.

ISO 45001 Basic Tenants

✓ Listed Elements:

1. Context of the Organization.
2. Leadership and Worker Participation.
3. Planning.
4. Support.
5. Operation.
6. Performance Evaluation.
7. Improvement.

Any Similarities?

OSHA Safety Management Systems Basic Tenants
Includes SHARP and VPP

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ISO 45001 Basic Tenants

✓ Listed Elements:

1. Context of the Organization.
2. Leadership and Worker Participation.
3. Planning.
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Source: ANSI Z10:
Fred Manuele, Safety
Management Systems

Gallery Walk

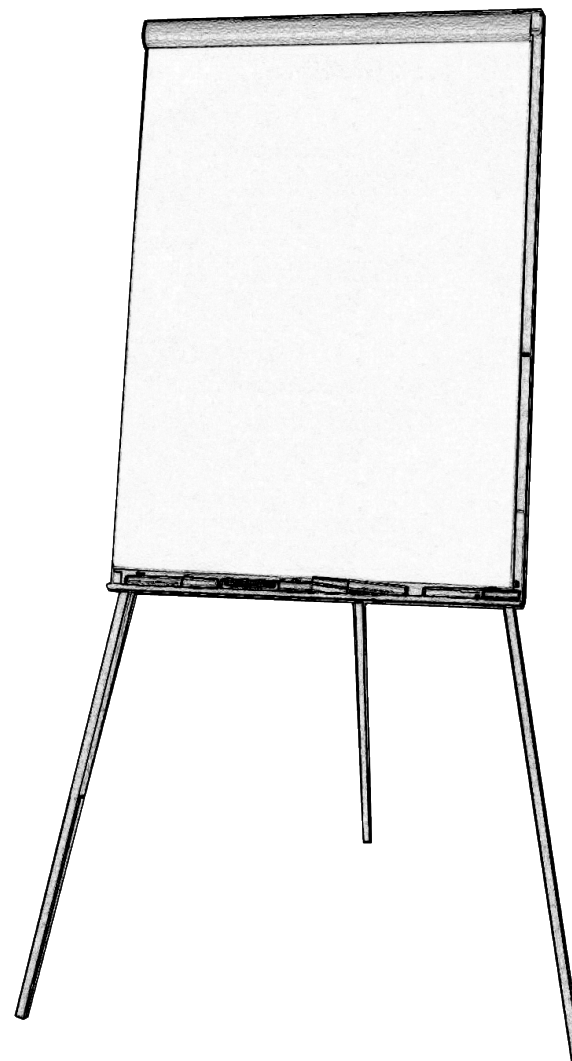
In your groups come up with
one thing that will help
execute:

Plan

Do

Check

Act











Source: ANSI Z10:
Fred Manuele, Safety
Management Systems

Consider H_fMS Organizational SPF SIF Potential Factor



THANKS FOR
Your Participation!