



PtD™
Prevention through Design

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imagination at work

IUE-CWA

Current Myths, adoption of PtD

- Myths
  - ✓ Cost/benefit ratio unfavorable
  - ✓ Limited benefits in production
  - ✓ Operational scheduling disruption
  - ✓ Tooling cost increases
- ✓ OSHA recordables
  - ✓ Loss time
  - ✓ Days Away from Work
  - ✓ Litigation legal

Indirect cost

1. Time lost from work by injured employee.
2. Loss of Efficiency due to break-up of crew.
3. Training cost for. new/replacement workers
4. Damage to tools and equipment.
5. Time damaged equipment is out of
6. Loss of production for reminder of the day.
7. Damage from : fire, water, chemical, explosives, etc.
8. Failure to fill orders/meet deadlines.
9. Overhead cost while work was disrupted.
10. Other miscellaneous cost (100 other items of cost may appear one or more times with every accident)

Unknown cost: Human Tragedy, Morale and Reputation

Organizational Safety Culture

- Culture defines what's possible
  - Reality (what is perceived)
  - Important (what is of Value)
  - Possible (Freedom of choice)
- **C**reating an
- **A**chievement oriented
- **R**elation based
- **E**ndeavour

Employee Involvement

- Worker non-participation is the “lost opportunity” for Occupational Health & Safety programs.
- Are on site all day, every day
- Know the process and problem of normal operations
- Ideas about solutions
- Can verify whether fixes actually work

Defining Rolls

Within PtD Training:

- Defining expectations and responsibility's
- Communicate to workers about PtD and how it relates to them.
- Create Worker Owned Structure
  - Most wise to have Management /Worker co-chairs within the working group.
  - Employee auditors
    - Verifying and evaluating hazard corrections
  - Perform safety audits
  - Conduct peer training with co-workers

Worker Participation Value

Creates a Force multiplier/Stake Holder

Operational understanding, production cycle

Practical application, with operator input

An vested interested, career

Resource for profit, not just an investment

Corporate Benefits

Community relations

Production scheduling consistency

Environmental programs Regulatory compliance

Production cycle improvements

Quality enchantments

Worker compensation reduction

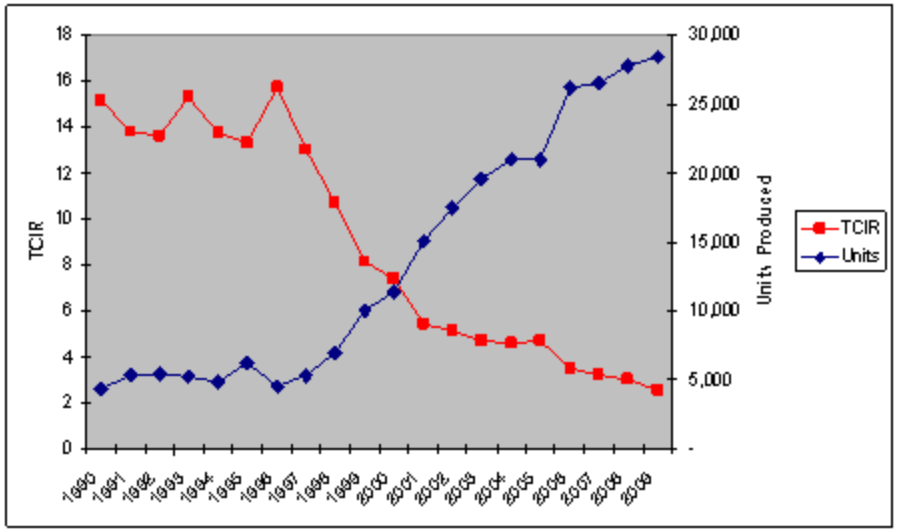
Defining PtD Benefits

- Sustainability
  - Structured guidance
  - Over the entire life cycle
  - Continuous improvement
  - Adopt as part of lean.
- Company gains a competitive advantage over there competitors.
  - Production changes (< cycle time)
  - New tooling (> production)
  - Efficiency (>total process improvement)

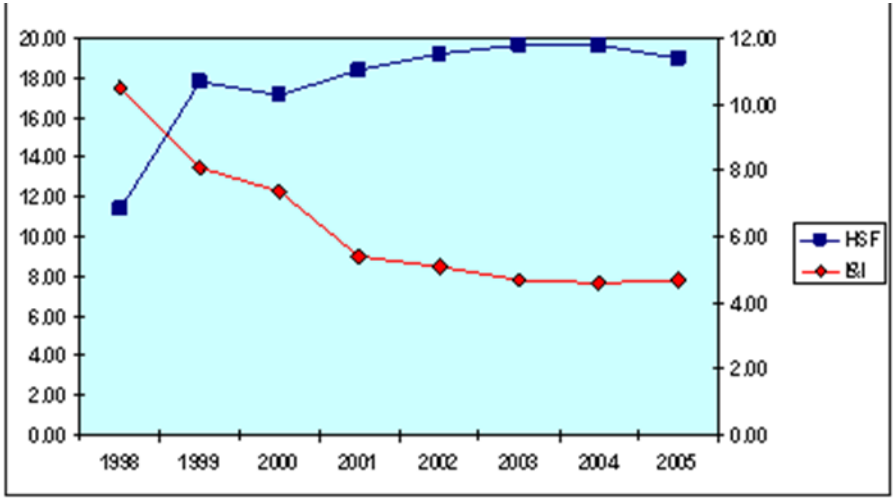
Tangible Impacts

Correlation of Improvement

Production Vs. Recordable Injuries



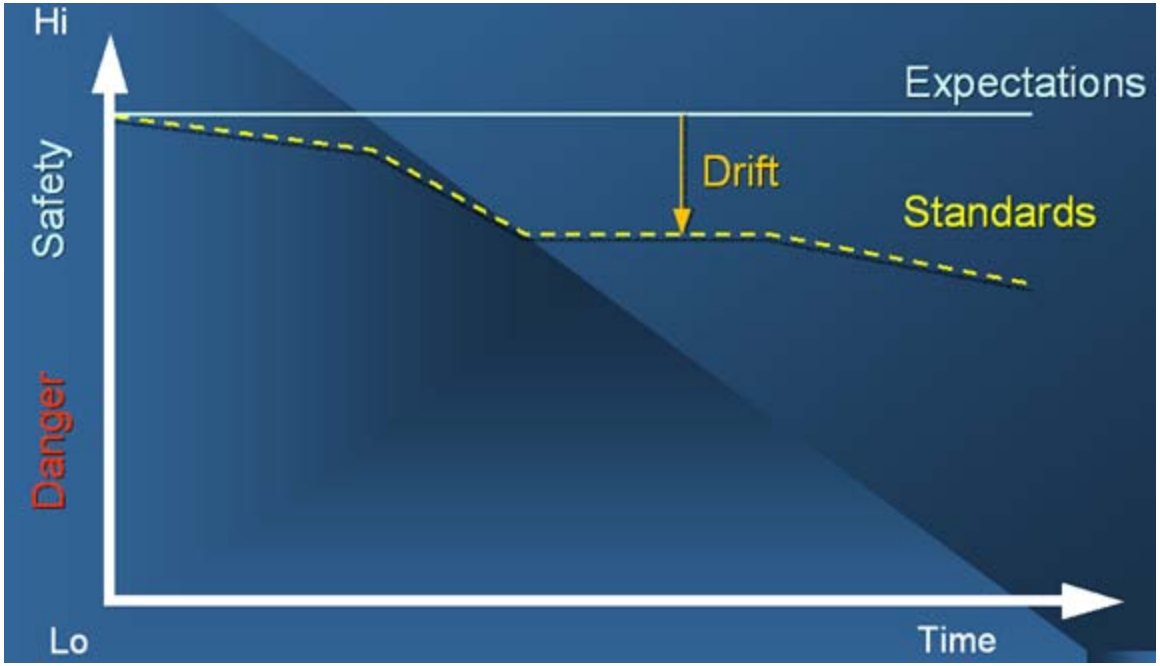
Program implementation Vs. Injury Reduction



Leading and Lagging Indicators

So why should we change our focus ?

The causes of tomorrow's events exist today !



Expectation is what you want,
Standard is what you accept to get the job done

A focus on Leading Indicators will directly impact the drift !

What's Next

- Barriers
  - Equipment Suppliers buy in
    - Include EH&S performance expectations In the procurement, purchase orders and contracts.
- Outreach
  - Trade schools
  - Unions
  - Universities / University of New Hampshire (UNH)
  - Company new hire orientation training
  - VPPPA Regional National conferences / Region 1 2011
- OSHA
  - Adopting as a performance standard in 2014

"If you always do what you've always done, You'll always get what you've always got"

Anthony Robbins