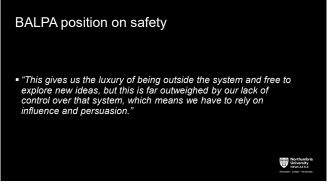


Theory into practical application

Alignment between paper and practice
Effective workplace innovations
Staying safe
What to do when things go wrong
The role of the Leader
Summary: a different, doable and directed approach

1 2



Alignment between paper and practice

3 4

# Reasons for rules As a memory aid To facilitate collaboration As a training & educational tool For design and planning purposes within an organisation As a means to identify variances in behaviour that lead to unacceptable risks

Identifying gaps between paper and practice

• When is this task difficult?

• What are you dependent on to do a good job?

• Are tools and resources always available to do the job?

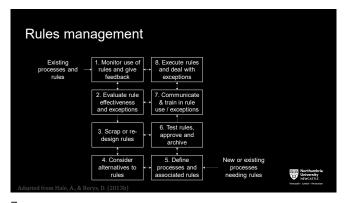
• What do you do if you can't access tools?

• And resources in time?

• What solutions have you come up with that the rest of the organisation could learn or help you to improve?

• Where are we wasting time/money?

• Is there something which is nonsensical or unnecessary that you have to do here?



Maintaining alignment between paper and practice:

- Are due to truly exceptional circumstances that do not warrant further action; or
- Require an update in the procedures that we need to address;
- Are indicative of poor implementation (communication, training, access, buy-in)?



## Maintaining alignment between *paper* and *practice*: Soft skills / change management

- This is unavoidable
- Taking ownership is attractive
- Facilitated by a physical infrastructure that minimises the effort
- Repetitively reinforce the new ways of working (process, not just exemptions):
  - In the field
  - With those that have suffered the loss of direct responsibility for rules
  - At department level, not individuals
- Be curious rather than judgemental
- Do this publicly



8

## Maintaining alignment: audits & inspections

9 10

#### Maintaining alignment: discipline reasonable social cohesion

- Make use of peer pressure / social dynamics
- Improve transparency & psychological safety
- Need for management to welcome bad news
- Include outside operators the subcontracting agreement can confound a collaborative attitude
- Use routine work (not an adverse event) to identify that someone is not executing his or her tasks satisfactorily

  - Offer support
    Make a plan
    Monitor performance



#### Maintaining alignment: discipline - low social cohesion

- May be seduced to violate rules solely for personal motives
  - Professional cab, truck and forklift drivers, independent professional pilots and small-group mariners
  - Consumer-operators like car drivers, recreational sailors and general aviation pilots
- Properly implemented rules (communicate the new procedures and their justification, train the task executors if required, and make the procedures readily accessible).
- Support adherence by an enforcement system of minor retribution (e.g. fines) or
  - high probability of detectionequal treatment of perpetrators

  - reasonably sized penalties for infringementsa reliable collection of levies

  - penalty should be administered independent of the consequences



11 12



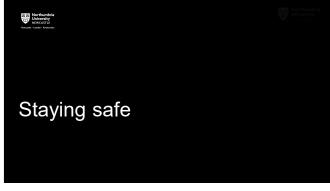






15





17 18















■ To increase organizational knowledge about work as it is done on the flight deck

■ Being able to translate patterns into opportunities for pilots to increase their clarity and ability to communicate their mental models

■ Opportunities lie with training, informal and formal discussions at various levels of the organization and exploring process change.

AMERICAN AMERICA AMERICAN AME

25 26





27



Maximising learning

Describe "human error" as a symptom of something wrong in the system

Avoid retrospective biases such as hindsight bias and outcome bias

Avoid counterfactual descriptions

Avoid passing judgement

Include decisions, actions and events that are geographically or in time removed

Compare with routine actions

Avoid simplifying the context

Do not use wording that mystifies rather than clarifies

29 30

## The aim is to learn: judge where improvements are most challenging yet feasible

- Most valuable and difficult part of an investigation is the mitigation of risks
- Elimination or physical isolation of hazards are more effective than warning signs or changes to rules...
- ... yet administrative improvements (including training) are four times more common
- Some 'improvements' actually complicate operations
- Recommendations should be clear and unambiguous even when read separately
- It is line management who must work out how to reduce the safety deficiency
- Include a realistic time limit for responding to a recommendation
- It is higher management's role to hold people accountable
- Effective investigators understand that the choices that the investigation team makes are subservient to the learnings that can be achieved.



31





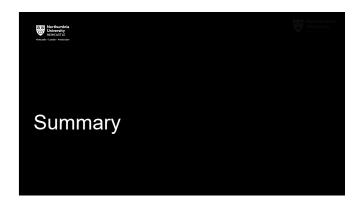
33 34





35 36





### Different

- Procedures are not always up to date or appropriate
- Deviations viewed as a trigger to analyse the situation
- Seek to understand how work really gets done
- Create a framework of rules with the front line and then empower them to take responsibility for any exceptions.
- 'Human error' Is not a cause of an adverse event but a symptom
- Safety margins erode in the absence of adverse events
- Numerical goals lead to manipulations that frustrate transparency and understanding
- Recommend an alternative to the traditional forms of just culture.



39

#### Doable

- Identify where safety is jeopardised
- Understand what is going on
- Innovate sensibly & monitor effect on safety and performance.
- Keep the discussion on risk alive
- Ensure that operators are competent
- What to do when things go wrong
  - to maximise learning ■ to restore relations

40



## Directed

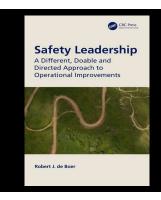
- Thinking is somewhat controversial

  - Rejects the term 'human error'
     Challenges the established culture of absolute compliance
     Suggests that "zero harm" policies are counterproductive
     Requires the acceptance of accidents as part of working life
- Need to direct the team
  - to be curious without passing judgement
     find out about how work really gets done
- Keep press, public, politics and even peers at bay
- Direction is required to get managers and staff to welcome 'bad news' Northumb University NEWCASTLE



Get the book

- Safety Leadership: A different, doable and directed approach to operational improvement
- With a foreword by prof. dr. S.W.A. Dekker
- Available from February 2021 at CRC Press
- ISBN: 9780367652753



41 42

