FLUKE® Reliability

Are you letting your machines control you?

Nancy Regan

Accelix™
Webinar Series

Bio

Nancy Regan

RCM expert and founder,
RCMTrainingOnline.com

- Aerospace Engineer
- Started with RCM in 1997 as US Navy employee
- Started my business in 2001
- RCM trainer and coach – live and online
- Author: *The RCM Solution, A Practical Guide to Starting and Maintaining a Successful RCM Program*

POLL QUESTION No. 1

When it comes to Reliability, what is your single biggest challenge or frustration right now?

a) Systemic lack of understanding of what Reliability and Maintenance are all about

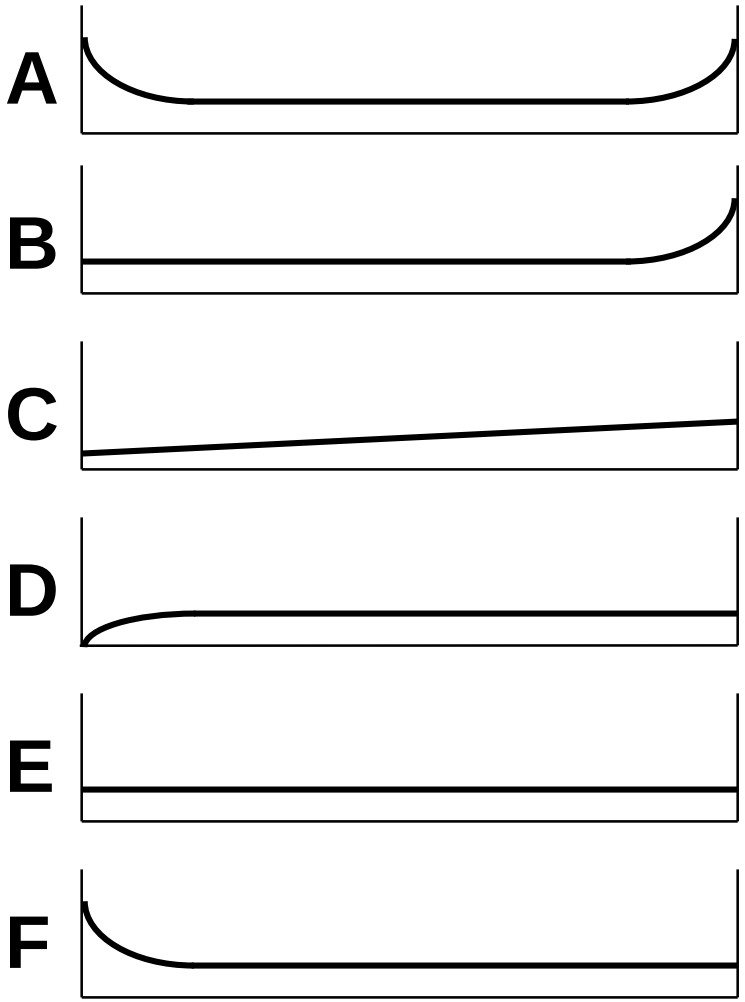
b) Lack of funding

c) Unable to convince top management/lack of management support

d) Don’t have good data

FLUKE Reliability

How Failure Behaves



Simple items:

- *Tires*
- *Brake pads*
- *Compressor blades*
- *Aircraft structure*

Complex equipment:

- *Electronics*
- *Hydraulics*
- *Pneumatics*

What is Reliability?

Reliability

As Equipment Custodians, we *design* our Reliability…

…*literally* and *figuratively*

What makes up a *winning* Reliability Philosophy?

1. Understand what *Reliability* is and that (to a large extent) *we design it*

Design Capability versus Required Performance

POLL QUESTION No. 2

Does your organization have a process to formally consider *Required Performance* for your assets?

- Yes
- No
- Not sure

What makes up a *winning* Reliability Philosophy?

1. Understand what *Reliability* is and that (to a large extent) *we design it*
2. Manage our assets at the right “level”

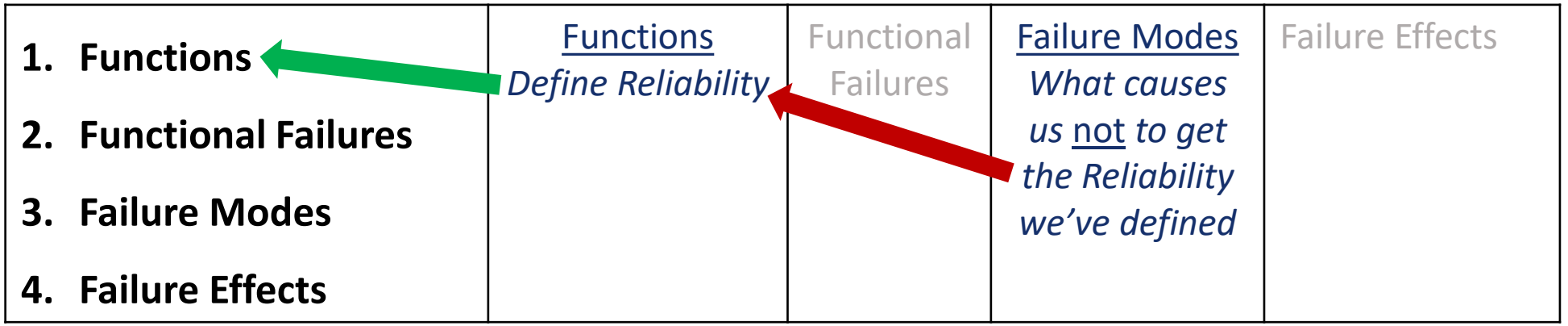
Reliability

We manage physical assets at the Failure Mode level.

What makes up a *winning* Reliability Philosophy?

1. Understand what *Reliability* is and that (to a large extent) *we design it*
2. Manage our assets at the right “level”
3. Make “technically appropriate” decisions for each Failure Mode

Reliability Centered Maintenance



FMEA

Failure Modes and Effects Analysis

5. **Failure Consequences**
6. **Proactive Maintenance and Intervals**
7. **Default Strategies**

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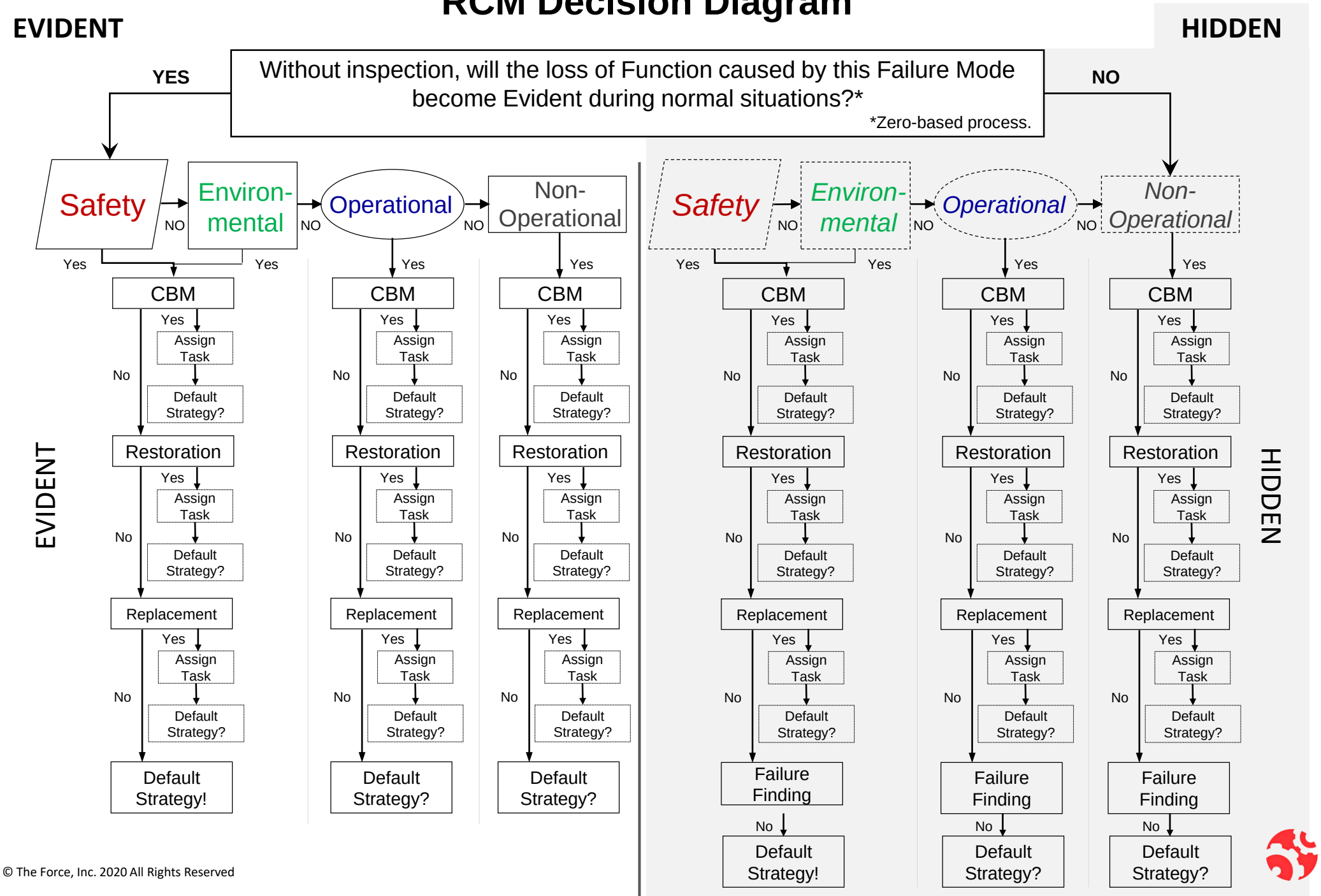
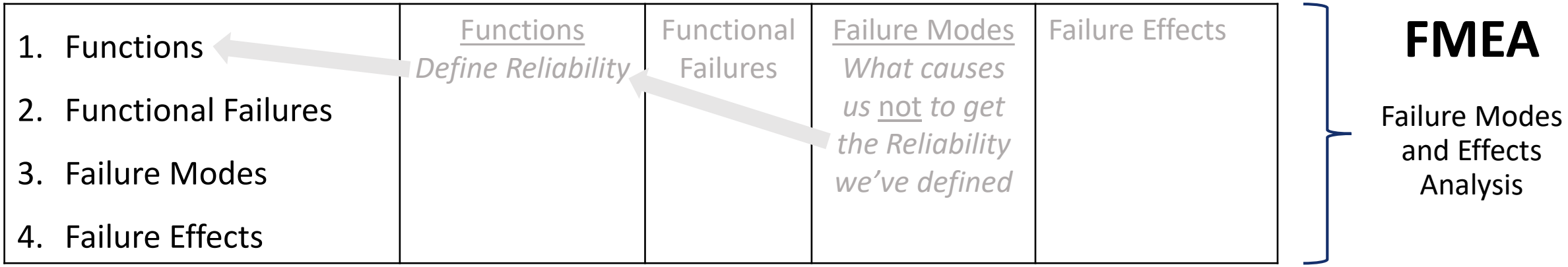
RCM Decision Diagram



Reliability Centered Maintenance



5. Failure Consequences
6. Proactive Maintenance and Intervals
7. Default Strategies

Steps 1-5 make up the FMECA

Step 6 includes Condition Based Maintenance (CBM)

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What makes up a *winning* Reliability Philosophy?

1. Understand what *Reliability* is and that (to a large extent) *we design it*
2. Manage our assets at the right “level”
3. Make “technically appropriate” decisions for each Failure Mode
4. Involving our greatest “Reliability Resource”

POLL QUESTION No. 3

Does your organization *formally* involve a multidisciplinary team of equipment experts when making decisions about assets?

- Yes
- No
- Not sure

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Thank you!

QUESTIONS?

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Free RCM Overview Course: **RCMTrainingOnline.com/Overview**

Next webinar Aug. 5: The most costly pitfalls in laser shaft alignment

BEST PRACTICE WEBINAR

Wednesday, August 5, 11 a.m. ET

The most costly pitfalls in laser shaft alignment (and how to avoid them)

Maintenance teams know them. The rough alignment runaround, where a system reaches the end of its detector range before being able to complete a measurement. The backlash blind spot, where systems cannot detect backlash, often leading to measurement errors. After-the-fact feedback, where you cannot get measurement quality factor information until AFTER you've completed a measurement.

In this webinar, Jonathan Gough, PRUFTECHNIK product manager for Fluke Reliability, discusses these and other pitfalls that drive up cost and extend the time it takes to complete alignment jobs.

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DEMO

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