



REDICA Systems

Leadership SOS™ Turning Failure into Success

Presented by: Steve Greer

GMP Consultant, Leadership Coach, Keynote Speaker
and Co-owner at Genesis Assist



REDICA Systems

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Introduction



Steve A. Greer

Consultant, Leadership Coach, & Speaker

**Recent “Graduate” of Procter & Gamble QA
External Engagement Leader**





Leadership SOS™

Turning Failure into Success













Success = Ownership + Systems





OLAY[®] IC
CAYEY PLANT





50%
Human

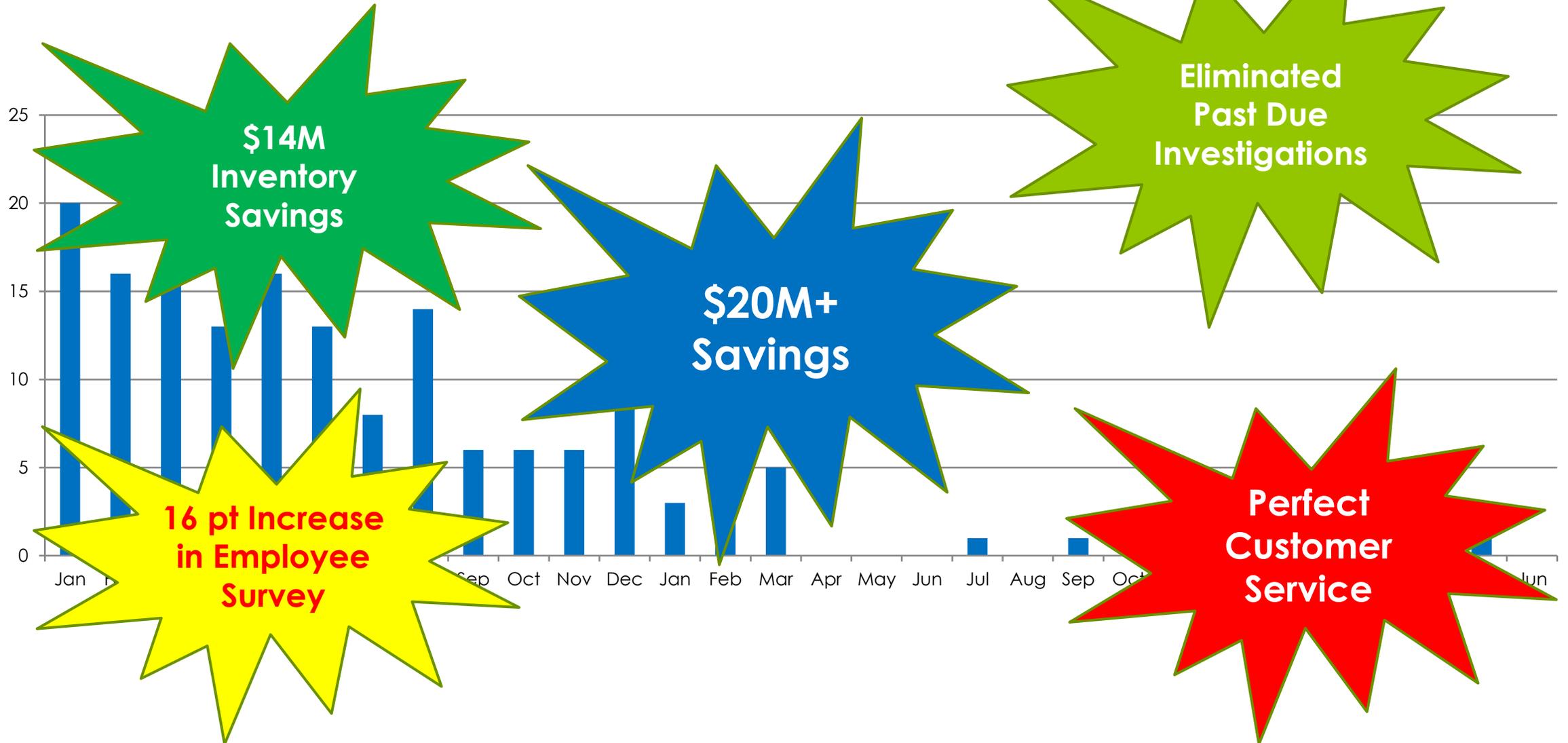
- **Cost: \$500K+/mo**
- **Service: 5% Missed**
- **Moral: ?**



Human Alerts and OOS



Business Results





FDA Quality Metrics

A bus stop shelter with a sign that reads "Next Stop Quality Management Maturity". The shelter is made of dark metal and has a bench inside. The sign is white with black text for "Next Stop" and green text for "Quality Management Maturity". The background shows a sunset or sunrise over a landscape with a fence and some lights.

Next Stop

**Quality Management
Maturity**



Quality Management Maturity

Quality Metrics

Business Continuity

Enhanced Pharmaceutical Quality System

Communication and Collaboration

Quality Culture

Sustainable Compliance

Leadership Commitment to Quality

Manufacturing Strategy and Operations

Customer Experience

Advanced Analytics

Risk Management

Employee Ownership and Engagement

Continual Improvement

Productivity Optimization (5S)



Quality Management Maturity

Quality Metrics

Business Continuity

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Risk Management

Continual Improvement

Productivity Optimization (5S)



3 Guaranteed Ways to Fail







R

E

F

O

R

M

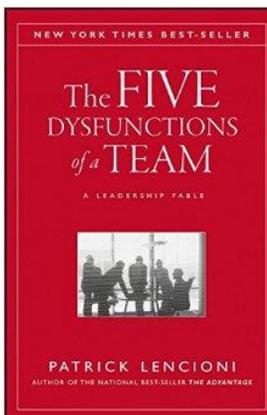




Quality Our Consumers,
Customers, Regulators
and **Employees** trust
everywhere, every time.

P&G Quality Promise

Effective Leadership





Success = **Ownership** + Systems



5,374



THE "IVORY" is a Laundry Soap, with all the fine qualities of a choice Toilet Soap, and is 99 44-100 per cent. pure.

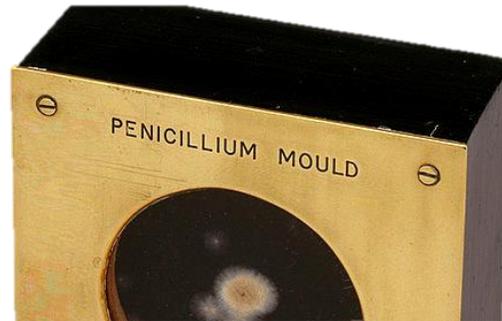
Ladies will find this Soap especially adapted for washing laces, infants' clothing, silk hose, cleaning gloves and all articles of fine texture and delicate color, and for the varied uses about the house that daily arise, requiring the use of soap that is above the ordinary in quality.

For the Bath, Toilet, or Nursery it is preferred to most of the Soaps sold for toilet use, being purer and much more pleasant and effective and possessing all the desirable properties of the finest unadulterated White Castile Soap. The Ivory Soap will "float."

The cakes are so shaped that they may be used entire for general purposes or divided with a stout thread (as illustrated) into two perfectly formed cakes, of convenient size for toilet use.

The price, compared to the quality and the size of the cakes, makes it the cheapest Soap for everybody for every want. TRY IT.

SOLD EVERYWHERE.



To make a mistake is human, but to blame it on someone else, that's even more human.

Factory Mix-Up Ruins Up to 15 Million Vaccine Doses From Johnson & Johnson

A manufacturing subcontractor in Baltimore mixed ingredients from the coronavirus vaccines of Johnson & Johnson and AstraZeneca, delaying U.S. shipments of the “one-and-done” shot.

The New York Times

“In late February, one or more **workers** somehow confused the two during the production process, raising questions about training and supervision.”

Observation 7

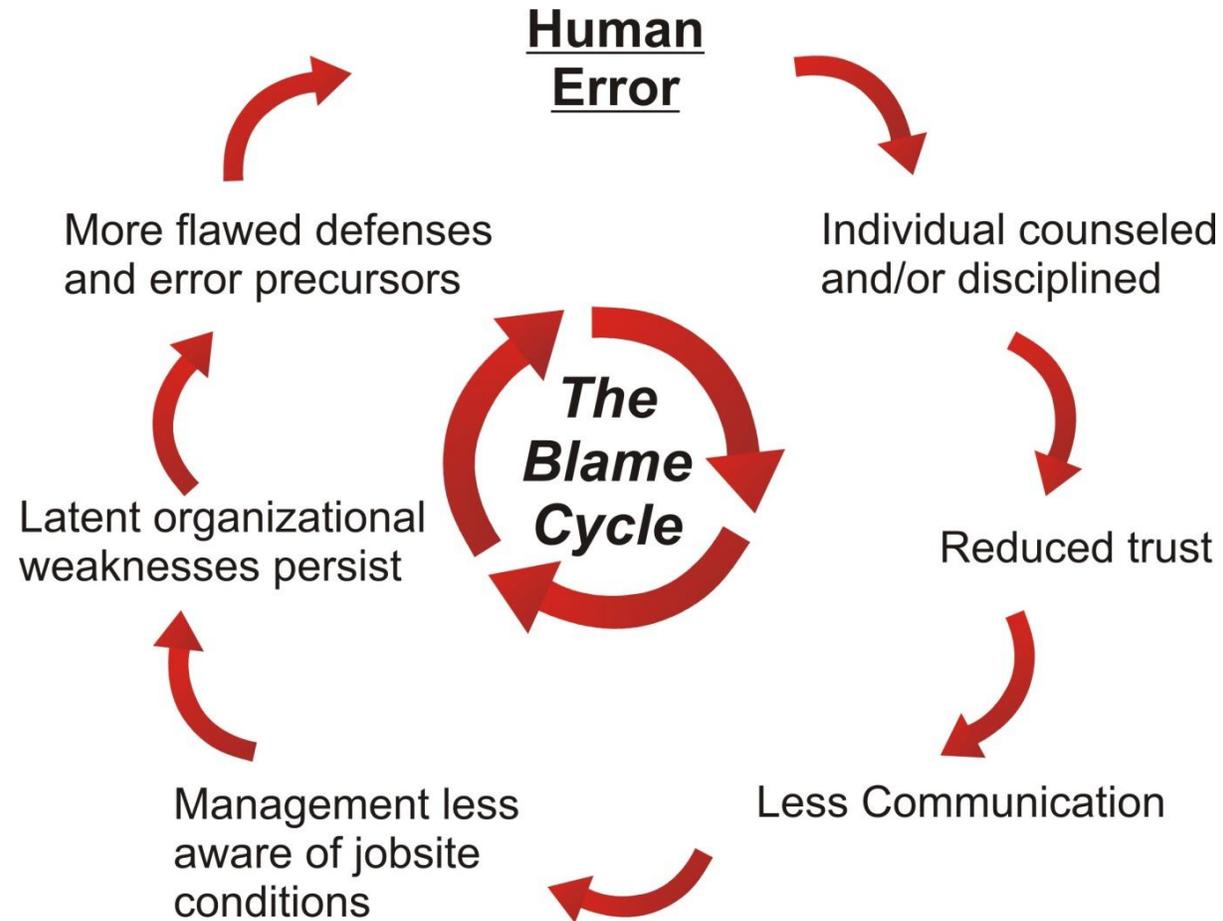
FDA 483 4/20/2021

Employees were not trained in the particular operation that they performed and/or in CGMPs related to their job function.

Specifically,

The firm has failed to adequately train personnel involved in manufacturing operations, quality control sampling, weigh and dispense, and engineering operations to prevent cross contamination of bulk drug substances created for client ^{(b) (4)} and client ^{(b) (4)}.

Blame Cycle



Source: Ginette Collazo





Change Our Questions to Change Our Destiny

Whose Fault is it?

Change Our Questions to Change Our Destiny

What Can I do

Differently?



Success = Ownership + **Systems**

96%

“A bad system will beat a good person every time”

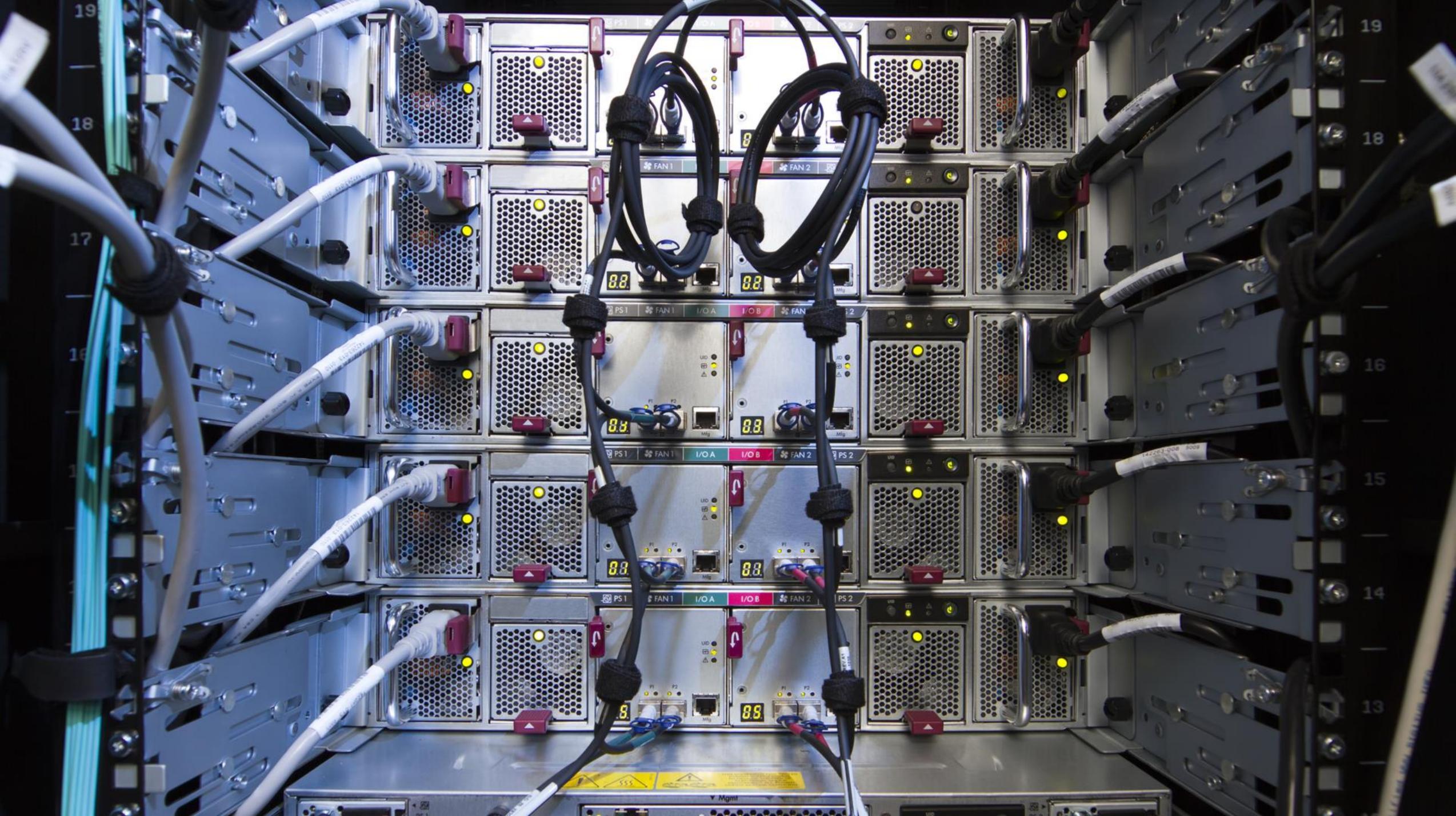
W. Edwards Deming

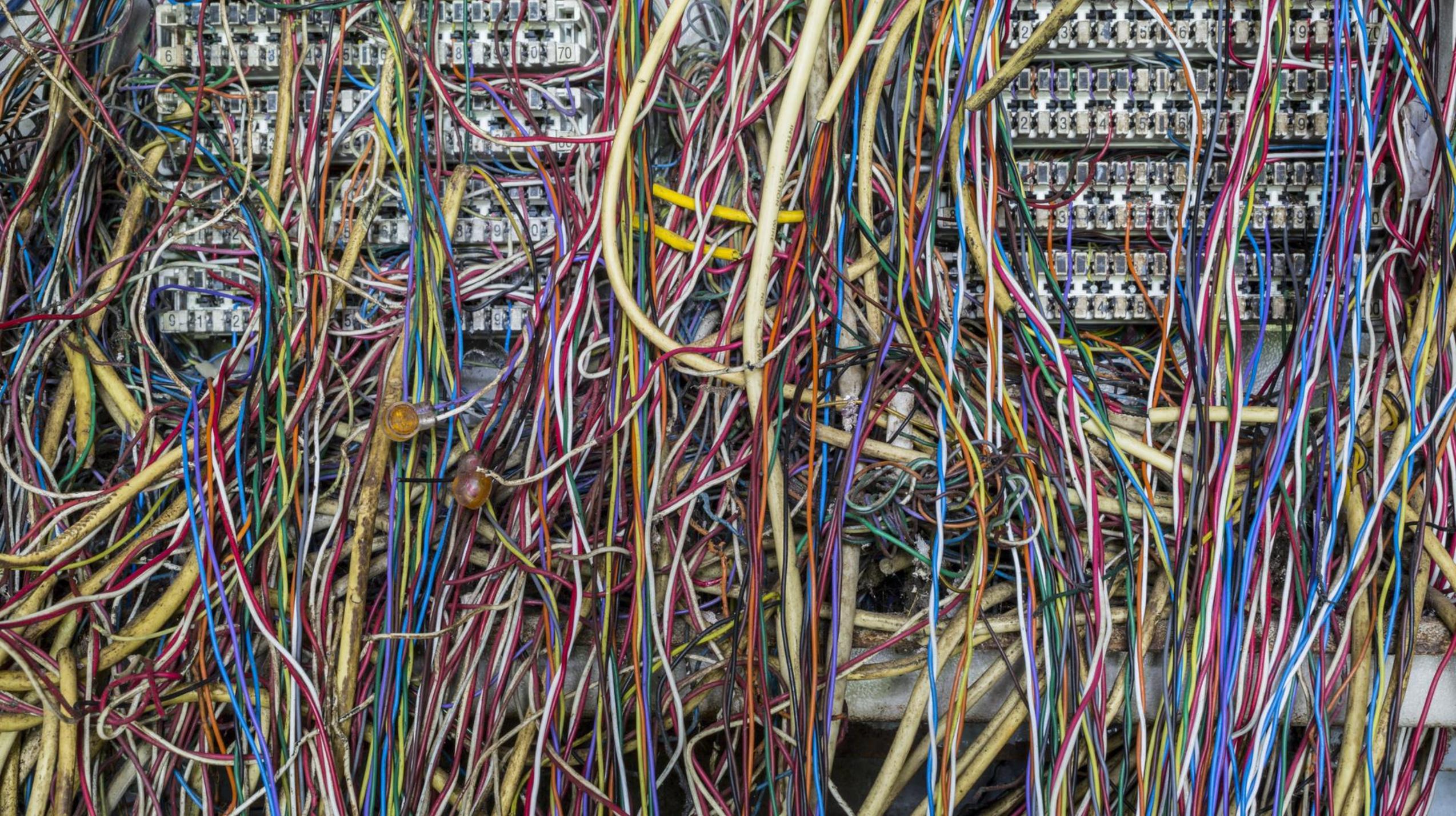
Human Error Rate

▪ Read a single number wrong	2	10,000
▪ Read a clear 5 letter word wrong	3	10,000
▪ Read a checklist wrong	1	1,000
▪ Perform the wrong visual inspection	3	1,000
▪ Record information wrong	1	100
▪ Read an unclear 5 letter word wrong	3	100
▪ Fail to notice wrong position of valves	5	10
▪ Fail to act after 1 min in emergency	9	10



simplify





**Procedures are the
single leading cause
of confusion**



Are Your SOPs “Complete” or Easy to Apply?



In-Process Control - Tablet Weights
PPM-TW05

Reminders

Procedure Overview

Instructions & Explanations

⌚ Target 7 min

<ul style="list-style-type: none"> GMP guidelines apply Hearing protection Eye protection PPE in lab - as per lab guidelines Record errors in Error Log Additional parameter(s) required Pictures on front side Enlarged pictures on reverse side Obtain all code & materials listed on reverse side Related SOPs, documents, etc STI TW05 - Avg Weights 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">1. Obtain tablet samples</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">2. Check calibration</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">3. Prepare data recorder</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">4. Tare balance & ensure correct scale</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">5. Weigh Tablet</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">6. Enter on data recorder</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">7. Repeat steps 4 - 6</div>	<ol style="list-style-type: none"> 1.1 Obtain required number of tablets as per table 1 on reverse side 1.2 You will perform in-process checks as per ② ② on reverse side 1.3 Confirm pre-checks on reverse side ② 2.1 Check balance is clean 2.2 Check under pan for fallen tablets, dirt ② 2.3 Check level indicator - ensure balance is level 3.1 Let Data recorder know who is performing tests - enter your initials 3.2 Enter container number being sampled 4.1 Tare balance with clean tray ② 4.2 Confirm reading is .000 g 5.1 Place tablet on tray ② 5.2 Close all doors 5.3 Wait till reading stabilizes 6.1 Press enter on Data recorder to record stable reading ② 6.2 If reading outside FL1 or FL2 notify operator and resample ② 6.3 If error, record in Data recorder error log ② 7.1 Repeat steps 4 to 6 for complete set of tablets
<ul style="list-style-type: none"> <input type="checkbox"/> 2.2 Ensure balance is clean <input type="checkbox"/> 4.1 Tare balance <input type="checkbox"/> 5.1 Weigh tablet <input type="checkbox"/> 6.1 Press enter to record reading 		

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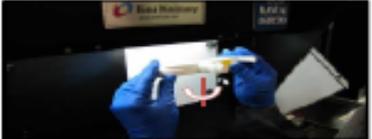
Doc Owner: Filomena Sousa Version: 1.0 Effective: Approver: *Donald E. Robinson*

Page 1 of 2

Source: Talsico International

SOPs Reinvented

- Seeing a video demonstration real-time will:
 - ✓ Reduce Training Time
 - ✓ Improve Understanding of Step to be Performed
 - ✓ Reduce Non-Conformances
 - ✓ Increase Adherence to Procedure
 - ✓ Allow for SOP Simplification
 - ✓ Increase ability to consistently supply patients

General Steps	Instructions	
	CRITICAL INSPECTION STEPS:	TURN and RETURN
	5.2.1 TURN ← the gripper (~90°) and inspect for floating particles. RETURN to its original position. Repeat this action as necessary. ✖ Press here for a visual demonstration of the process.	 Bend down the gripper
	5.2.2 Ensure not to over-stir the handle to prevent bubbles that may be mistaken as particles.	
	5.2.3 Bend down the gripper, as necessary, to allow light to be induced within the vials while inspecting for particle.	ROTE los viales e Inspeccione
	✖ Press here for a visual demonstration of the process.	
	5.2.4 ROTATE ↻ (360°) each vial and inspect for cosmetic defects. ✖ Press here for a visual demonstration of the process.	INVIERTA la agarradera
	5.2.5 REVERSE the gripper. ✖ Press here for a visual demonstration of the process.	
	5.2.6 ROTATE ↻ (360°) each vial and inspect the base, the seal, the "stopper" and the vial neck. ✖ Press here for a visual demonstration of the process.	ROTE e INSPECCIONE para defectos en el cuerpo del vial
5.2 Inspect the 3cc vials for cosmetics or particles in solution defects.	5.2.7 Refer to Section 8 for the "DEFECTIVE VIALS HANDLING".	

User focuses on flawless execution instead of SOP interpretation

Checklists

The NEW ENGLAND JOURNAL *of* MEDICINE

SPECIAL ARTICLE

A Surgical Safety Checklist to Reduce Morbidity
and Mortality in a Global Population

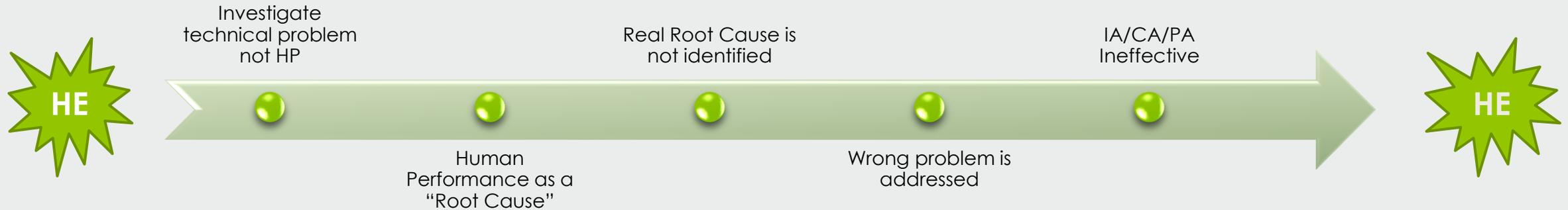
GEMBA – Leaders on the Floor



Solving the Wrong Problem



Investigate Human Performance Differently



5 ERRORS

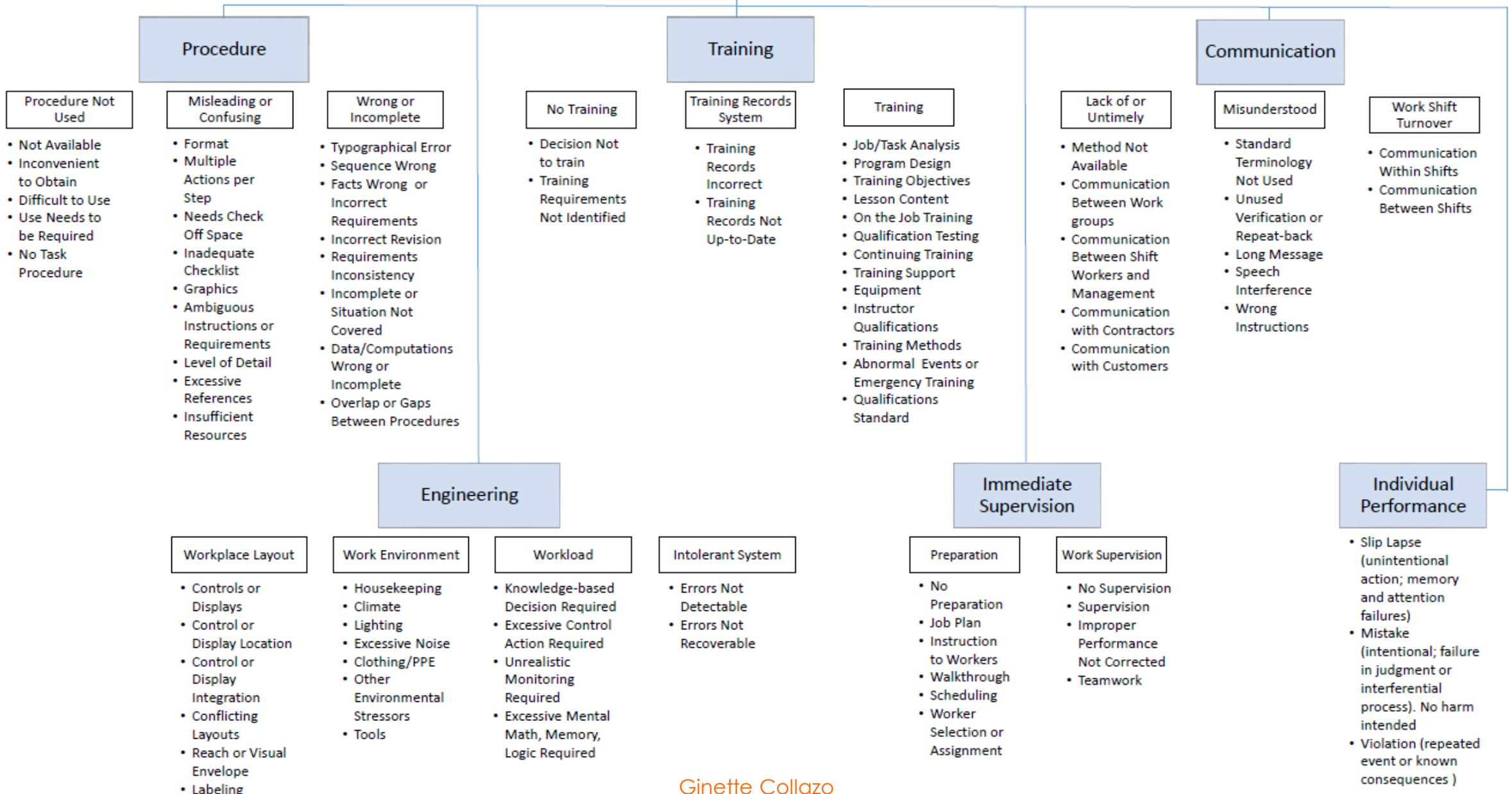
Root cause analysis for human error events rarely gets to the real issues.

Root Cause

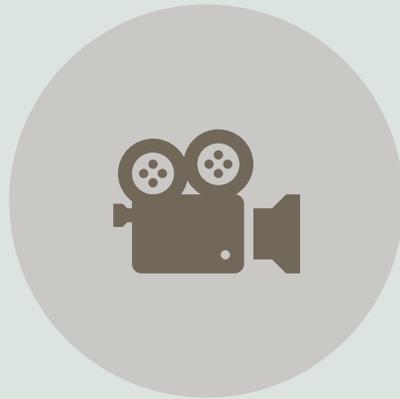
The most basic cause (or causes) that can reasonably be identified that **leadership has control to fix** and, when fixed, will prevent (or significantly reduce the likelihood of) the problem's recurrence.

Root Cause Determination Tool™

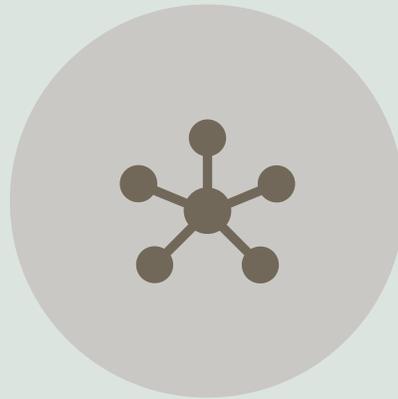
Human Performance Event



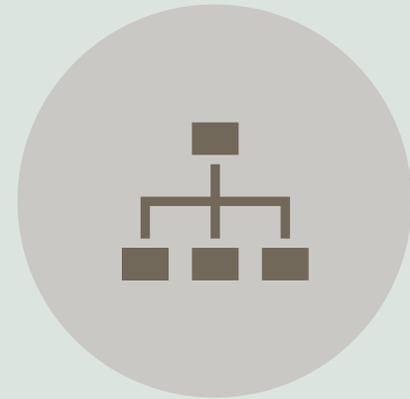
Human Memory Considerations



NOT A MOVIE



**HIGHLY COMPLEX,
INTERCONNECTED**



**TEND TO ORDER AND
STRUCTURE EVENTS**

Interviews

Interviews are not about asking questions ...

they are about **stimulating memories**

Mark Paradies, System Improvements



Personnel Human Performance Model Questionnaire Tool

[The following questions are a guide to be used during the interview with the personnel involved in an event where the root cause is identified to be related to a human factor. The answers should be as accurate as possible. Use one Form for each person interviewed.

Alert # _____

Employee Name/T# _____

Interview Date: _____

	Question	Answer
Q1	What document was used/reference at the time the event occurred? Version: _____ Step: _____ Page# _____ Effective date: _____	What type of document was? <input type="checkbox"/> Batch Record <input type="checkbox"/> SOP <input type="checkbox"/> Checklist <input type="checkbox"/> Form <input type="checkbox"/> None <input type="checkbox"/> Other: _____
Q2	Do you feel the document (Q1) was clear, specific and in the proper order?	<input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No
Q3	How often do you perform this task?	<input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Semi-weekly <input type="checkbox"/> Quarterly/Annually <input type="checkbox"/> Other: _____
Q4	Did you perform the steps from memory?	<input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No
Q5	Is this your first time performing the task after being trained?	<input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No
Q6	On which shift the event occurred?	<input type="checkbox"/> 1 st <input type="checkbox"/> 3 rd <input type="checkbox"/> 2 nd <input type="checkbox"/> Weekend
Q7	Did you experience any problems during your last performance of this task?	<input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No



Success = Ownership + Systems



TAKE ACTION

Contact Information



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