



**BEYOND THE AUDIT
LEVERAGING AS9100D FOR PROCESS & PRODUCTIVITY
GAINS**

Parvez Siddiqi – PS & ASSOCIATES LLC

MEET YOUR PRESENTER

Parvez Siddiqi

- 45 + Years in QA, Senior Management Role
- AS9100D AEA
- Lead Auditor for ASA CB, In The Past Other CB's
- Data Com Device Design & Manufacturing
- US Army Ground Combat Vehicles, Design, Development, Manufacture, Service
- US Army Aviation Subcontractor MRO for various aircrafts types, Rotary Wings
- ASQ Fellow, CQE, CRE, CQM O/E.

SHARING BEST PRACTICES



LEVERAGING AS9100D FOR PROCESS & PRODUCTIVITY GAINS

- WE WILL EXPLORE SELECTED SECTIONS OF THE STANDARD.
- EXPLORE HOW TO LEVERAGE AS9100D FOR
 - PROCESS & PRODUCTIVITY GAINS
 - DRIVE MEASURABLE IMPROVEMENTS
 - MINIMIZE LOSSES
 - NAVIGATE TO A BEYOND COMPLIANT & PROFITABLE QMS
- WE WILL PRESENT A SMART WAY TO SET MEASURES/KPI'S
- TAKE ADVANTAGE OF RICH DATA TO ZERO IN ON CONTRIBUTING FACTORS THAT CAUSE WASTE & REPEATED ISSUES

IT IS ALL ABOUT GROWING THE BUSINESS, HAVING AN UNCOMPROMISING CREDIBILITY & REPUTATION FOR MEETING CUSTOMER REQUIREMENTS ON TIME, AT COST, ON SCHEDULE WITH ZERO DEFECTS



YOUR SYMPTOMS LEARNED TO TOLERATE THE CURRENT SITUATION

KPI'S MET
PROBLEMS COME BACK
AGAIN
QMS OWNED BY
QUALITY

AUDITS DONE
NC'S/CAR'S CLOSED
NO SIGNIFICANT IMPACT
STATUS QUO

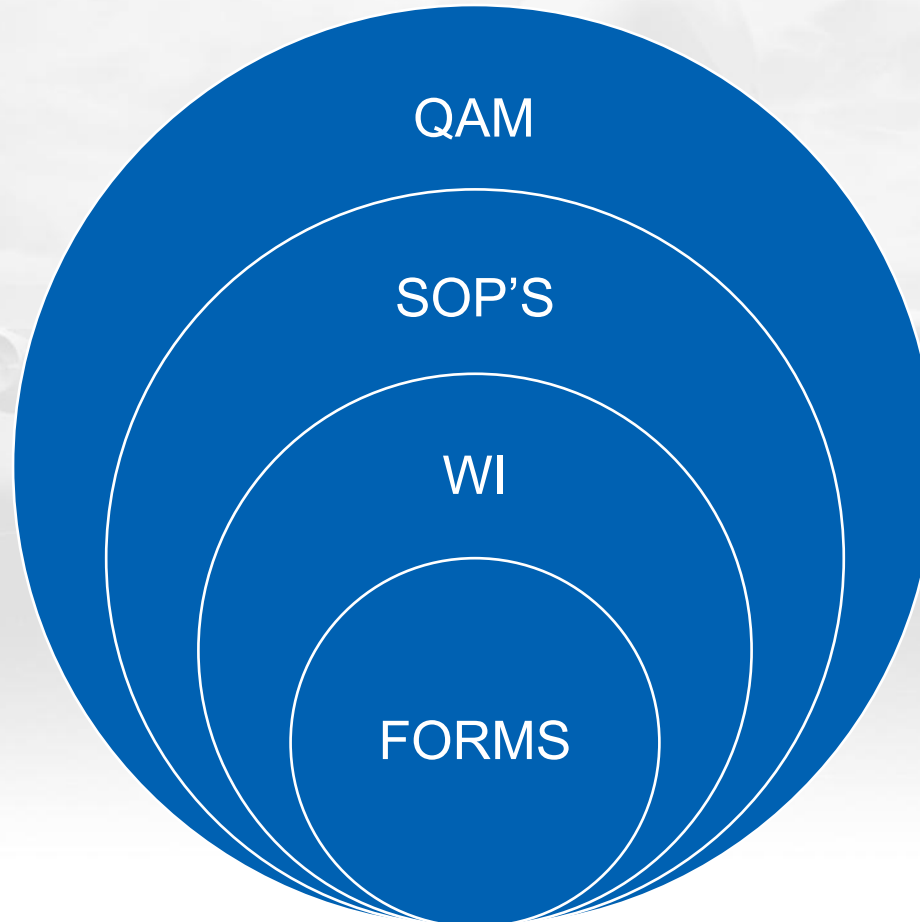
**BEYOND CERTIFICATION
WE WILL PRESENT CURRENT STATE
AND SHOW A PATH TOWARDS A
FUTURE STATE**

ACTIVE INTERNAL AUDIT & MR INSPIRE OF THIS THE EXTERNAL AUDITOR FINDS ISSUES



EVENTS BECOME ROUTINE, NCR's GET CLOSED
CERTIFICATION IS CELEBRATED
BOTTOM LINE SHOWS NO CHANGE THINGS REMAIN
THE SAME

SOP'S, WORK INSTRUCTIONS, FORMS



CURRENT STATE WHO READS THEM?
ARE THEY EFFECTIVE / UNDERSTANDABLE?
KEEP THEM SIMPLE

EFFICIENCY INDICATES NO CHANGE



**BUT
PRODUCTIVITY IS
STILL DOWN**



**KPI's / MEASURES
HIT THE TARGETS
YEAR AFTER YEAR**



**COMPLIANT BUT PRODUCTIVITY /
GAINS DON'T SHOW ANY CHANGE**

NO WORRIES WE CALLED THE DOCTOR



NO WORRIES, WE WILL TRY TO FIX IT



OUR LEVERAGING PLAN FOR GAINS

1

**DEEP DIVE INTO A SELECT AS 9100D SECTIONS
UNDERSTAND THE “SHALL”**

2

**LEVERAGE SIMPLE & EFFECTIVE TECHNIQUES TO
REDUCE COSTS & ERRORS**

3

**ACHIEVE A FUTURE STATE / DRIVEN BY GAINS
IN PRODUCTIVITY
THE CYCLE NEVER STOPS**



ZERO IN ON SELECT AS9100D SECTIONS TO LEVERAGE FOR GAINS

■ SECTION 4.4.1

← MOST IMPORTANT SECTION

- PROCESS OWNERS
- RESPONSIBILITIES, MEASURES, TARGETS,
- PUSH TARGETS

■ SECTION 10.2

- NC'S & CAR'S, SECTION 10.2.1
- ROOT CAUSE ANALYSIS
- VALIDATING THE ACTIONS (CHECK EFFECTIVENESS)

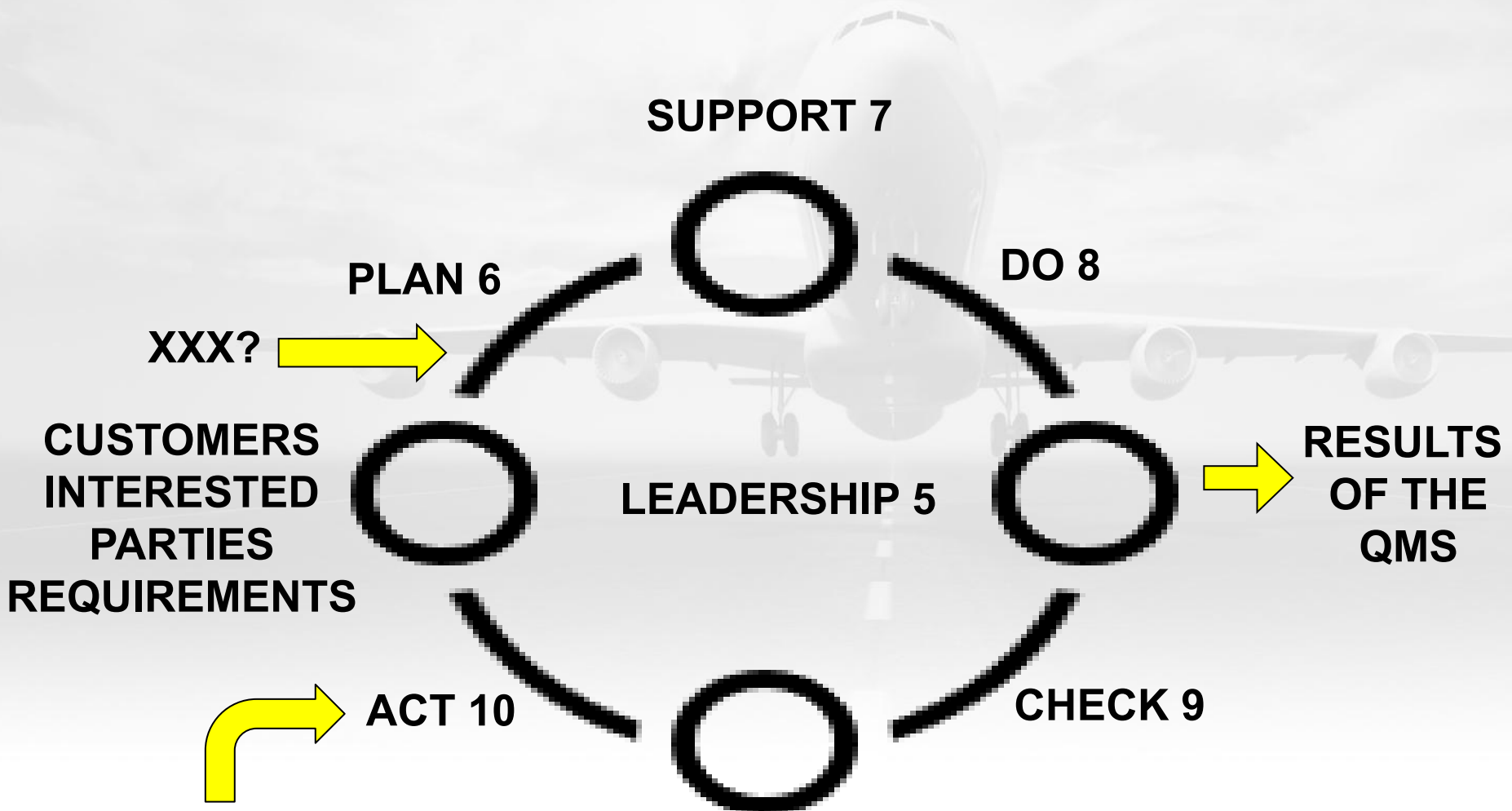
■ SECTION 9.2

- INTERNAL AUDIT, **START WITH IMPLEMENTATION FIRST**
- PROCESS OWNERSHIP, CHECK "SHALL" STATEMENTS

**ABSOLUTELY IMPORTANT TO READ /
UNDERSTAND THE STANDARD & THE FINE LINES**

**REQUIREMENTS ARE DETAILED
IN SECTION 4.0 TO 10.3
THERE ARE 147+ MANDATORY
"SHALL", THERE ARE MORE**

WHERE IN THE PDCA LOOP IS SECTION 4?



REMEMBER THE REQUIREMENT FOR CONTINUAL IMPROVEMENT. THE ABOVE LOOP NEVER STOPS. ALWAYS PUSHING FOR HIGHER GOALS.

SECTION 4.4.1 - MOST OVERLOOKED YOU BEGIN WITH THIS SECTION

▪ REQUIREMENTS

- IDENTIFY KEY PROCESSES
- ASSIGN PROCESS OWNERS & RESPONSIBILITIES
- ESTABLISH INPUTS /OUTPUTS
- SET MEASURES – PROCESS PERFORMANCE – TO CHECK IF THE PROCESS IS DELIVERING PLANNED RESULTS

▪ SOLUTION

- PROCESS NAMES SYNC WITH PROCESS INTERACTION DIAGRAM
- PROCESS OWNERS **OWN** THE ASSIGNED SECTIONS OF THAT PROCESS
- INPUTS & OUTPUTS (WORK PRODUCT)
- SET **RELEVANT** MEASURES FOR PROCESS PERFORMANCE

**WE WILL GO BEYOND JUST DOCUMENTING IT
WE WILL DEMO ACTIVE IMPLEMENTATION FOR
HIGH YIELDS & GAINS**



SECTION 4.4.1 SOLUTION

PROCESS NAME (EXAMPLE)	PROCESS OWNER (EXAMPLE)	APPLICABLE SECTION/S OF AS9100D (EXAMPLE)	EXAMPLE OF DIRECT/RELEVANT MEASURE OF PROCESS OUTPUT (WORK PRODUCT)
DESIGN	JOE	8.3	# OF DESIGN CHANGES DUE TO ERRORS IN DESIGN
MANAGEMENT	SUSAN	4,5,6,7,9.1,10.3	OTD, CUST' SAT'
PRODUCTION	ROBERT	8.1,8.2,8.5	1.BID WIN RATE 2.PRODUCTION YIELD 3.PRODUCT CONFORMITY 4.INTERNAL RESPONSIBLE SCRAP/REWORK FAILURES
PURCHASING	KEN	8.4	1.# OF SOLE SOURCE PROVIDERS 2. OTD, PROD' CONFORMITY 3.RISKS, # OF LONG LEAD ITMES
QA,MGMT' REP	SALLY	8.6, 8.7,9.2,9.3	1.SHIP ERRORS 2.INTERNAL / RESPONSIBLE REJECTS/SCRAP/REPAIR

LEVERAGE TEAM BUILDING
PROCESS OWNER OWNS THE SECTION AND ALL "SHALL"
STATEMENTS & MAINTAIN DOCUMENTED OBJECTIVE
EVIDENCE FOR COMPLIANCE – SELF AUDIT



MAKE THE MEASURES WORK FOR YOU

- **PROBLEMS OBSERVED WITH MEASURES**
 - IRRELEVANT TO THE WORK PRODUCT OUTPUT/S OF THE PROCESS
 - NOT TIME BOUND
 - COMPLEX CALCULATIONS/EXTRACTION OF DATA
 - VERY OFTEN JUST ENOUGH TO PASS AUDITS, **SET FOR EVER**, ARE NOT STRETCH ENOUGH / DON'T PUSH FOR HIGHER PERFORMANCE
- **USE OF "SMART" MEASURES**
 - SIMPLE
 - MEASURABLE
 - ACHIEVABLE
 - REALISTIC / RELEVANT
 - TIME BOUND (TRACK BY MONTH/QUARTER/YEAR)

FOCUS ON GAINS/PROFITABILITY/CUTTING LOSSES
PUSH & STRETCH TARGETS,
DON'T BE AFRAID TO MISS THEM



USE “SMART” MEASURES TRACK, REPORT & ACT, MONTHLY, QTRLY, YEARLY

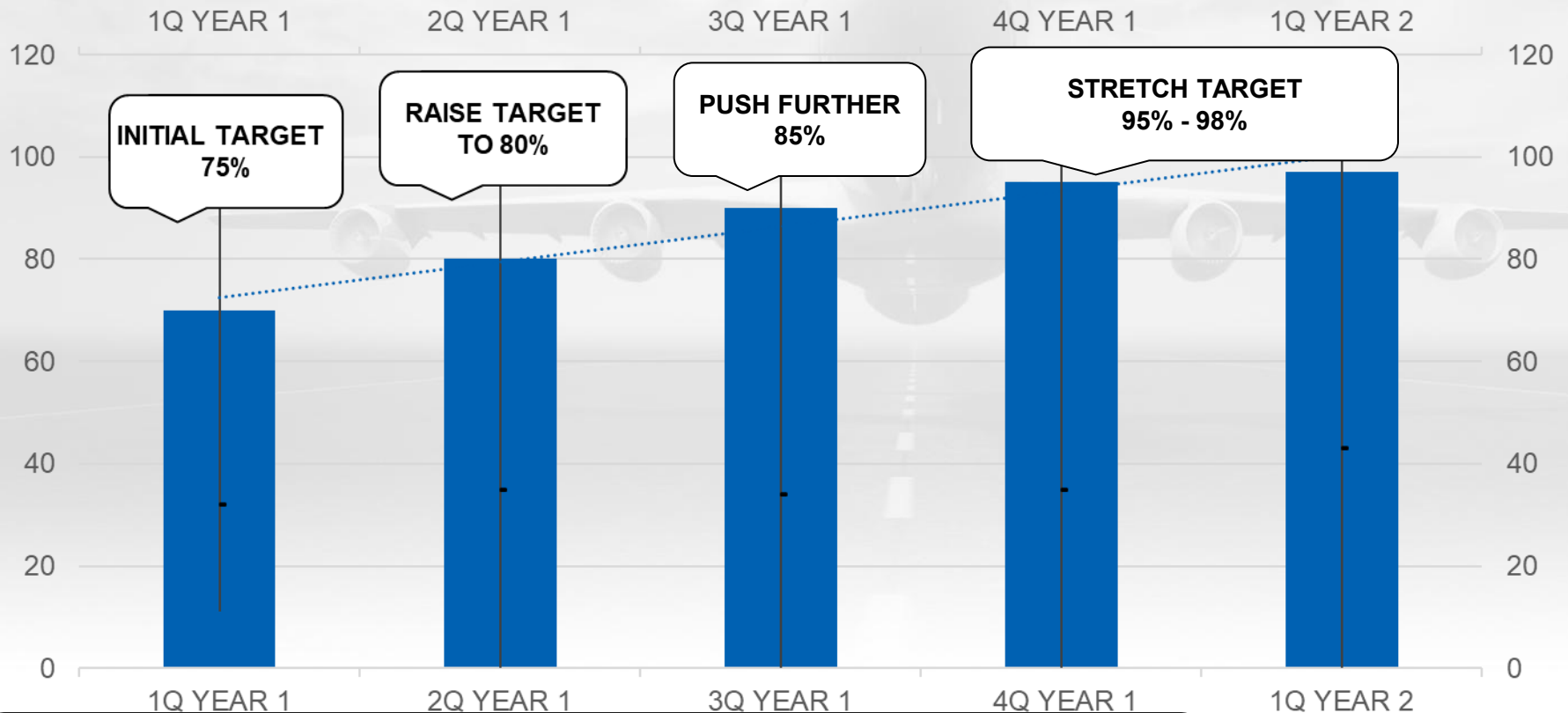
- EXAMPLES OF MEASURES TO ACHIEVE GAINS, THERE ARE MANY MORE!
 - # OF DESIGN CHANGES DUE TO ERRORS IN DESIGN, **Reduce It**
 - BID WIN RATE, **Increase It**
 - PRODUCTION YIELD (NET / COMPOSITE YIELD), **Increase It**
 - CYCLE TIME, **Reduce It**
 - PRODUCT CONFORMITY (YIELD FINAL QC), **Increase It**
 - INTERNALLY RESPONSIBLE SCRAP, REWORK, **Reduce It**
 - TEST FAILURES, (WORKMANSHIP/SW/HW ERRORS), **Reduce It**
 - EQUIPMENT DOWNTIME (PM), **Reduce It**
 - SERVICE ERRORS, **Reduce It**

SIX SIGMA

**MITIGATE RISKS, CUT LOSSES, ACHIEVE GAINS
WHEN DATA IS NEGATIVE, ANALYZE, TAKE ACTION,
VERIFY THE ACTION TO BE EFFECTIVE**

TREND THE MEASURES / PUSH TARGETS EXAMPLE OF STRETCH GOALS

PRODUCTION YIELD



WHEN A MEASURE MAX'S OUT, RETIRE IT BUT DON'T STOP TRACKING.

FIND A NEW MEASURE TO IMPROVE. REMEMBER, WHAT GETS TRACKED & REPORTED

GETS ATTENTION (TRACK & TREND MANDATORY KPI'S!!!)

SECTION 4.4.1 PROCESS OWNERS

- **PROCESS OWNERS & THEIR RESPONSIBILITY**
 - **OWN THE APPLICABLE SECTIONS OF THE STANDARD**
 - **OWN ALL THE “SHALL” FOR THEIR SECTION OF THE STANDARD**
 - **ESTABLISH MEASURES, USE “SMART” TECHNIQUE**
 - **THEY MEASURES THEIR WORK PRODUCT USING AS9100D**
 - **PUSH KPI TARGETS TO ACHIEVE / IMPROVE OUTCOMES, QTR/YEAR**
 - **PROCESS OWNERS – CHAMPION THE PROCESS – ARE THE SME**


**PROCESS OWNERS ARE CRITICAL TO DRIVE PROCESS
& PRODUCTIVITY GAINS**

SECTION 4.4.1 PROCESS OWNERS

- **PROCESS OWNERS & THEIR RESPONSIBILITY**
 - FAMILIAR WITH ALL APPLICABLE “ SHALL ” STATEMENTS
 - ENSURE THERE IS DOCUMENTED SUPPORTING EVIDENCE
 - MAKE THE JOB SIMPLE FOR PERSONNEL
 - OWN THEIR SOP'S, WI, FORMS ---- REDUCE THEM ---- EASY TO COMPLY
 - COORDINATE SOP's WITH INTERACTING PROCESS OWNERS
 - KEEP AN EYE ON MANDATORY SOP's (FLOW CHARTED!)
 - DON'T WAIT FOR THE INTERNAL OR THE EXTERNAL AUDITOR TO FIND ISSUES, BE PROACTIVE (DO SELF AUDIT)
 - OWN REQUIREMENTS SUCH AS FOD, AWARENESS, PRODUCT & PERSONNEL SAFETY, SHELF-LIFE CONTROLS, TOOL CONTROL, EQUIPMENT PM, HUMAN FACTORS, ERGONOMICS, ENVIRONMENT OF WORKPLACE, NOISE, DUST

**PROCESS OWNERS ARE CRITICAL TO DRIVE GAINS
THEY ARE THE SME FOR THEIR AREA**

CATCHING UP OUR PROGRESS

- **FOCUS ON SECTION 4.4.1, 10.2 AND 9.2 FOR GAINS**
 - ✓ SECTION 4.4.1
 - ✓ PDCA LOOP
 - ✓ LEVERAGING 4.4.1 FOR GAINS, TEAM BUILDING & LEADERSHIP
 - ✓ SMART MEASURES
 - ✓ PUSHING TARGETS
 - ✓ PROCESS OWNERS OWN APPLICABLE SECTIONS
- **NEXT IS SECTION 10.2** 

SECTION 10.2 NON' CONF' & CORRECTIVE ACTION

- SECTION 10.2 DEALS WITH
- DOCUMENTING NON' CONF' & DEALING WITH IT (DISPOSITION) AND TAKING CORRECTIVE ACTION/S
- *ANALYZE NC'S AND SEEK CORRECTIVE ACTION (WEAK AREA)*
- *DETERMINE IF SIMILAR ISSUES EXIST ELSEWHERE IN THE SYSTEM, OTHER SITES, OTHER PROCESSES) (WEAK AREA)*
- VERIFY THE EFFECTIVENESS OF CORRECTIVE ACTION/S. THE CA IS UNFINISHED UNLESS VERIFIED FOR EFFECTIVENESS. UNVERIFIED CA IS PRETTY **USELESS**. ASK AROUND **" DID WE ACTUALLY ELIMINATE THE ROOT CAUSE"** IF NOT REPEAT THE RCCA
- RISKS, FLOW DOWN TO EXT. PROVIDERS, CHANGES TO QMS, TAKE ACTIONS WHEN CA IS NOT EFFECTIVE

THIS SECTION DEALS WITH THE BIGGEST FINANCIAL DRAIN . FLIES UNDER THE RADAR. LEVERAGING IT CAN BE REWARDING



LEVERAGE RICH NC DATA – SEEK ROOT CAUSE/S DRIVE CORRECTIVE ACTIONS

- NC DATA IS A RICH SOURCE FOR CA LEADING TO GAINS
- EXAMPLES OF DATA FROM INTERNAL PROCESSES
 - INSPECTION RESULTS
 - FABRICATION / PRODUCTION ERRORS / **DELAYS**
 - EXTERNAL PROVIDERS, OTD, NC, OUTSOURCED PROCESS HAS ERRORS EVEN IF THEY FLOW TO A SUBCONTRACTOR **WATCH OUT!!**
 - PRODUCT TEST ANAMOLIES (HARDWARE / SOFTWARE ISSUES), WRONG PROGRAM, SW NOT VALIDATED
 - CONFIGURATION, BUILT TO AN OLDER REV, CHANGES NOT IN MFG'
 - EQUIPMENT PM, TOOLS, FIXTURES, CALIBRATION, FOD, SHELF LIFE
- CUSTOMER RETURNS / ESCAPES / FEEDBACKS
- INTERNAL EMPLOYEE INPUTS

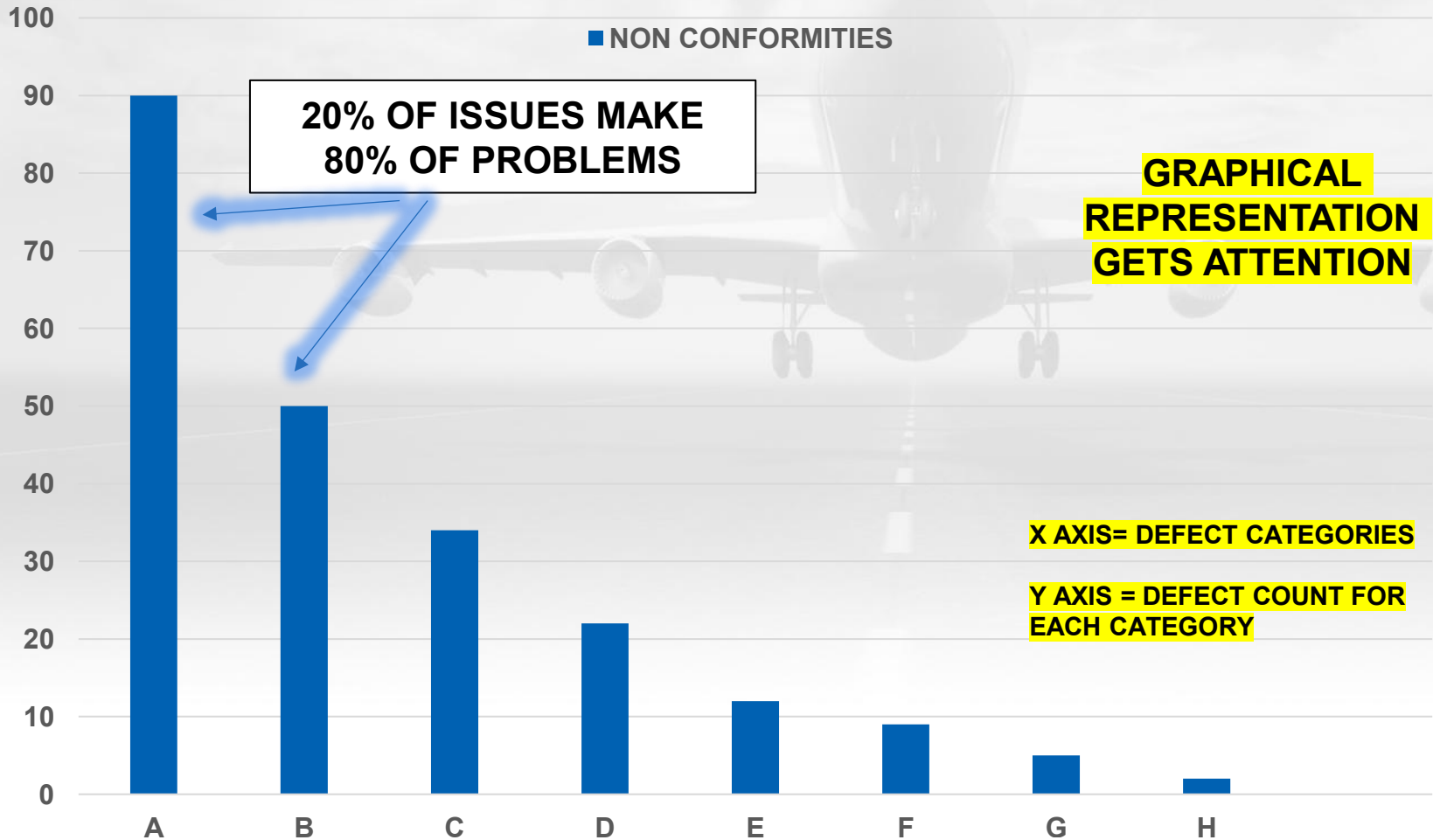
**SPOT FIXING – WEAK CA - ONE OFFS, DOES NOT SOLVE
THE ROOT CAUSE/S
LEVERAGE THE VALUE OF THE DATA**

EASY RCCA TECHNIQUES – USE A TEAM APPROACH - LEADER COACHES AND MENTORS THE TEAM

- PARETO ANALYSIS
 - 80 – 20 RULE
- IDENTIFY THE 2 BIGGEST NONCONFORMITIES
 - THEN SEEK ROOT CAUSE/S FOR JUST THE 2
- CONDUCT “5 WHY” EASY WAY TO DRILL DOWN TO ROOT CAUSE
 - NEEDS TO BE A STRONG ROOT CAUSE
 - VALIDATE THE ROOT CAUSE TO BE EFFECTIVE
- FOR ISSUES WITH MANY VARIABLE ISSUES - TRY FISH BONE ANALYSIS
- FOR COMPLEX ISSUES WITH MULTIPLE VARIABLE
 - TRY DESIGN OF EXPERIMENTS

**STRONG ROOT CAUSE ELIMINATION
REDUCES RISKS STOPS RECURRING NC's,
PREVENT GAINS**

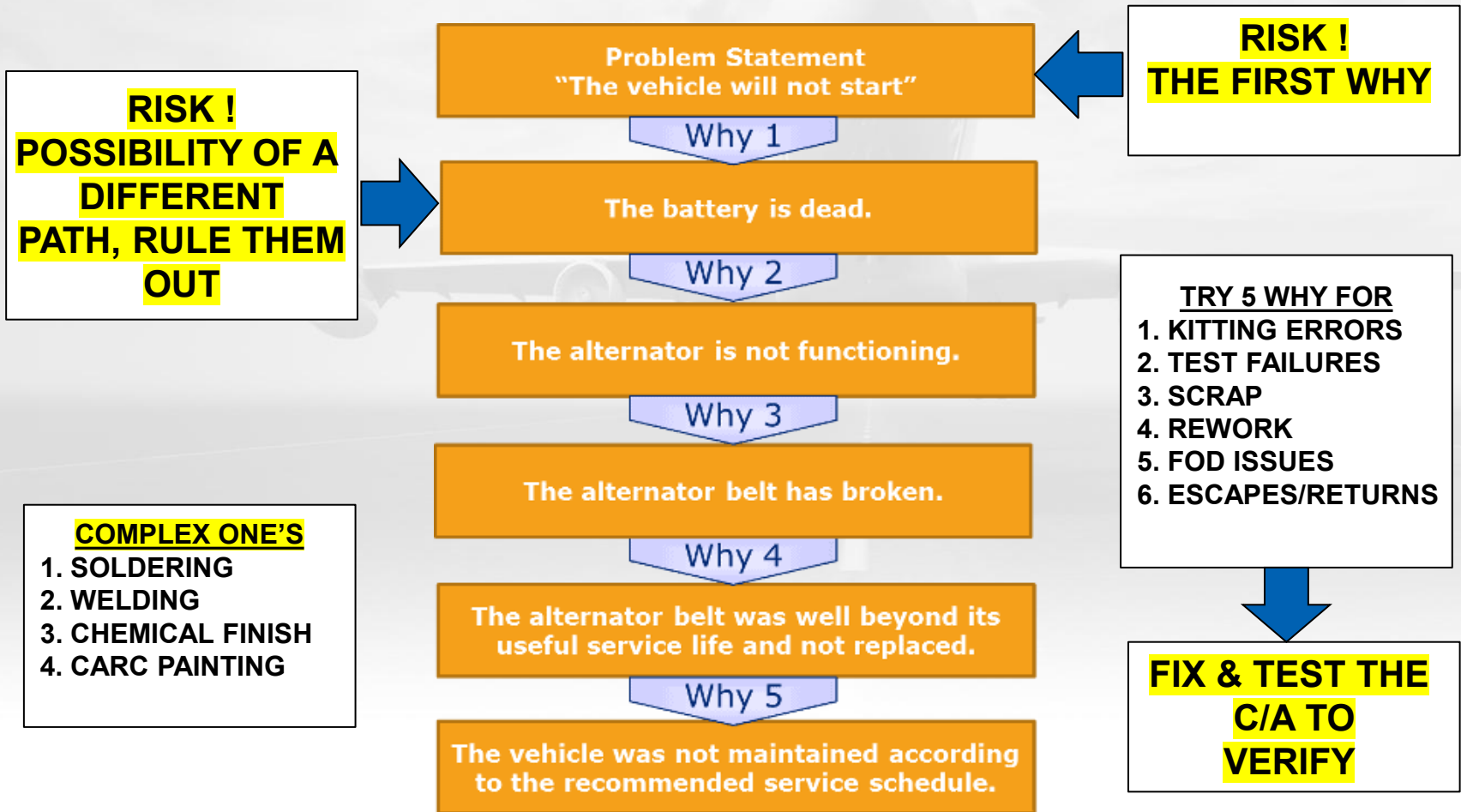
ANALYSIS OF NON' CONF' DATA EXAMPLE OF A PARETO ANALYSIS



**SOLVE THE 2 FIRST. THEN RE-TABULATE – SLOWLY
ELIMINATE ALL OF THEM – REMEMBER
CONTINUAL IMPROVEMENT**

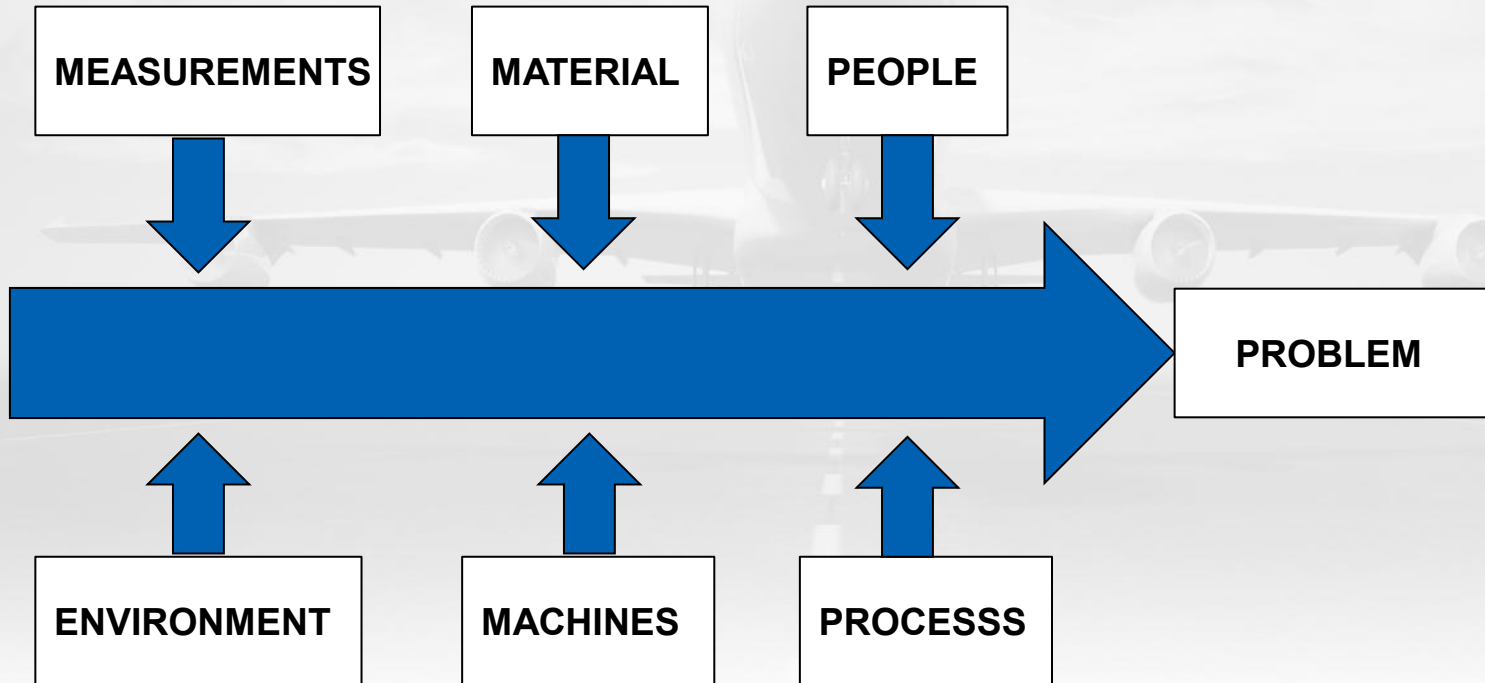
EXAMPLE OF A 5 WHY METHOD

SIMPLE TECHNIQUE, MAY HAVE SOME LIMITATIONS



ASKING REPEATEDLY "WHY" LEADS TO THE MAIN CONTRIBUTING FACTOR – ROOT CAUSE

FISH BONE ANALYSIS FOR RCCA



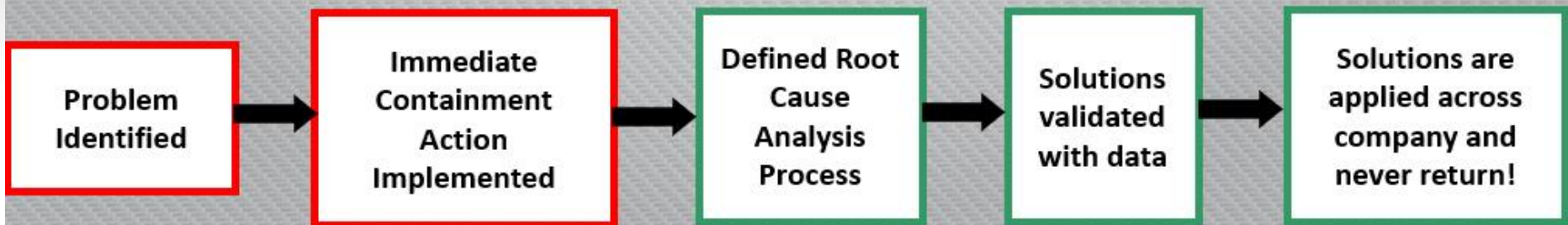
USEFUL WHEN DEALING WITH A MULTI VARIABLE CONTRIBUTING FACTORS. EVALUATE, ELIMINATE AND TEST BEFORE CLAIMING VICTORY 😊

Root Cause Identification – Why is it so important?


“We are too busy” or Quick Fix APPROACH



“This cannot happen again” or PREFERRED APPROACH



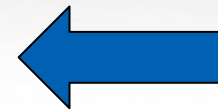
ALWAYS VALIDATE THE C/A

- ONCE THE C/A IS READY FOR REVIEW – ASK **IS IT EFFECTIVE?** ☹️
- TEST THE CORRECTIVE ACTION (IF NOT THE EFFORT IS A WASTE) ☹️
- VERIFY IF THE OUTCOME SOLVES THE **ORIGINAL** NON CONF' ☹️
- CONFIRM IF THE SAME ISSUE HAS A RISK OF REAPPEARING ELSEWHERE IN THE SYSTEM / SITES ☹️ **EVALUATE THE NEED & IMPLEMENT THE C/A**
- SECTION 10.2.1.b.3 REQUIRES A CHECK ACROSS ALL SITES / ALL PROCESSES ☹️ (**SECTION 10.2.1. b.3**)
- DO A CURRENT STATE Vs. FUTURE STATE CHART REVIEW
- WHEN THE SOLUTION ELIMINATES RISK & TESTS ARE SUCCESSFUL & CORRECTED PROCESS IS IN PLACE. **RECOGNIZE THE TEAM**
- **CELEBRATE SUCCESS**  ALWAYS DOCUMENT THE ACTIONS

8 D STRUCTURED TEAM APPROACH FOR PROBLEM SOLVING IS ALSO VERY EFFECTIVE

CATCHING UP OUR PROGRESS

- **FOCUS ON SECTION 4.4.1, QMS & ITS PROCESSES**
 - ✓ SECTION 4.4.1
 - ✓ PDCA LOOP, SMART MEASURES, PUSHING TARGETS
 - ✓ ENGAGING PROCESS OWNERS TO OWN THEIR SECTIONS
- **FOCUS ON SECTION 10.2, NON CONF' & C/A**
 - ✓ PARETO ANALYSIS, FISH BONE DIAGRAM, 8 D PROCESS
 - ✓ CHECK FOR NON CONF', ANALYSE, SEEK ROOT CAUSE
 - ✓ VALIDATE C/A, TEST IT, IMPLEMENT IT OVER ALL AREAS
- **UP NEXT IS SECTION 9.2 INTERNAL AUDITS**



**LEVERAGING FOR GAINS CONTINUES
AS9100D OFFERS PLENTY OF AREAS TO
FURTHER IMPROVE PROCESSES**



SECTION 9.2 INTERNAL AUDIT PROVIDE INTERNAL CHECKS & BALANCE ARE EXTREMELY USEFUL

- **CURRENT STATE:**
- YES / NO TYPE CHECKLISTS ARE WEAK
- AS9100D REQUIRES PROCESS AUDITS (**SECTION 0.3 & 0.3.3 FOR RISK BASED THINKING**)
- PROCESS TRAIL IS NOT FOLLOWED (PO TO REQMTS REVIEW, OK/NOT OK, ID RISK , TO JOB ROUTER / TRAVELER, TO FLOW DOWN TO EXT. PROVIDERS, SEQUENCE & INTERACTION DIAGRAM THERE ARE SEVERAL PATHS – TRAIL ALL THE PATHS)
- CHECKS REQUIRED PRIOR TO START OF THE JOB /PROCESS IS NOT DEFINED, NOT AVAILABLE, NOT PROVIDED TO PERSONNEL & NOT IN THE RIGHT SEQUENCE
- DESIGN PROCESS, CONTRACT REVIEW, RISK ID, FOD CHECK PRIOR TO START, TOOL CHECK, EQUIPMENT PM, SHELF LIFE, FIRST PIECE / FAI, ASSEMBLY IS BUTTONED UP THEN FOD IS CHECKED, QC PROCESS, SAMPLING, TEST SW/HW – **MADE EASY TO FOLLOW & COMPLY** (**SECTION 8.4, 8.5**)

**INTERNAL AUDITOR MUST BE WELL VERSED IN
REQUIREMENTS & THE PROCESSES, USE A PROCESS
APPROACH, BE SEASONED. A GOOD AUDIT IS A VALUE-ADD
AUDIT**



SECTION 9.2 INTERNAL AUDIT – WEAK AREAS

- **INTERNAL AUDIT SUGGESTED IMPROVEMENTS**
 - **AUDIT PLAN IS NOT LAID OUT BY KEY PROCESSES AND THEIR APPLICABLE SECTIONS OF THE AS STANDARD**
 - **SELECTED MEASURES, KPI, OUTCOMES NOT RELEVANT, SAME KPI IS USED FOR MORE THAN ONE PROCESS (*ZERO IN ON WORK PRODUCT OUTPUTS*)**
 - **SMALL ORGANIZATIONS HAVE A HARD TIME FINDING AUDITORS WITH NO CONFLICT OF INTEREST / OBJECTIVITY / IMPARTIALITY**
 - **AUDIT REQUIRED TO ENSURE COMPLIANCE (9.2.1 (a) 1)**
 - **CUSTOMER REQUIRMENTS**
 - **STATUTORY AND REGULATORY REQUIREMENTS**
 - **ITAR (DEFENSE ARTICLES), CMMC (CONTROL OF CUI, FCI, LEVEL I, LEVEL II)**
 - **CUI CONTROLLED UNCLASSIFIED INFORMATION**
 - **FCI FEDERAL CONTRACT INFORMATION**
 - **HAZMAT, WASTE DISPOSAL, OSHA,**
 - **APPLICABLE DPAS RATINGS, DO, DX RATINGS , FAR 52.211-15**
 - **FAR / DFAR ON CONTRACT /SOW**

**INTERNAL AUDITS THAT DO NOT REVEAL ISSUES,
WEAKNESS & FINDINGS
ARE A TOTAL LOSS OF TIME, EFFORT & RESOURCES**



PREFERRED APPROACH

EXAMPLE OF AN INTERNAL AUDIT PLAN

Reqmts' Assign Auditor	Applicable Sections (EXAMPLE)	Q1	Q2	Q3	Q4
Key Process A	4.0, 5.0, 6.0, 9.1 9.2,9.3,10				
Key Process B	7.0				
Key Process (PEAR)	8.1, 8.2				
Key Process D (PEAR)	8.3				
Key Process E (PEAR)	8.4				
Key Process F (PEAR)	8.5,8.6, 8.7				
Sub Process E	Flow Down QR 8.4.3 a) to m) +				
Statutory & Reg'	OSHA, EPA, HAZMAT				
Cust' Unique Reqmts'	FAI, SUBMISSION OF DATA				
DPAS, CMMC, FAR/DFAR, ITAR	DO, DX RATED CUI, FCI, ITAR				

QMS INTERNAL AUDITS ADDS VALUE WHEN A DIFFERENT SET OF EYES CONDUCTS AUDITS

- ADD VALUE, ID NON CONF', HELP TO ESTABLISH COMPLIANCE
 - IDENTIFY AREAS TO CUT COSTLY REPAIR / REWORK, LOSSES
 - RESPONSIBILITY OF THE INTERNAL AUDITOR TO ID WEAK AREAS & RISKS SO THEY CAN BE ADDRESSED AND ELIMINATED
 - BUILD TRUST & CONFIDENCE INTERNALLY/EXTERNALLY
 - OFTEN MISUNDERSTOOD, RESTATE OVER AND OVER!
 - **PERSONNEL ARE AFRAID OF BEING WRITTEN UP**
 - **AUDITS FIND WEAK PROCESSES , SO WE CAN GET BETTER**
 - **WE ARE LOOKING AT WAYS TO IMPROVE THE EFFECTIVENESS OF THE QMS**
- SKILLED AUDITORS, DEEP DIVE TO FIND WEAK AREAS,**
HELP TO ELIMINATE LOSSES
HELP REALIZE GAINS

QMS INTERNAL AUDITS

EXAMPLES OF WEAK AREAS, OFI'S, NCR'S

- **LOW HANGING**

- FORMS NOT CONTROLLED, FORMS LEFT BLANKS, OVERDUE CAL' EQUIPMENTS, JOB TRAVELERS SKIPPED STEPS, EXPIRED SHELF-LIFE ITEMS, SPLIT LOTS NOT TRACKED , WEAK CONFIG' CONTROL, PERSONNEL NOT AWARE OF DPAS, DPAS NOT FLOWED DOWN TO EXT. PROVIDERS, DOCUMENTS OF EXTERNAL ORIGIN UNCONTROLLED, JOB TRAVELER CHANGES

- **HIGHER VALUE**

- C/A NOT VALIDATED, EXTERNALLY PROVIDED TESTS / REPORTS / CERTS NOT REVIEWED PRIOR TO ACCEPTANCE, HEAT LOT # FOR MATERIALS NOT CHECKED – TRACEABILITY, TOOLS / DRILL BITS FOR CNC MACHINES POORLY MAINTAINED, EQUIPMENT PM

**EFFECTIVE AUDITS IDENTIFY ISSUES, HELPS RCCA,
SO, WE CAN CUT LOSSES, IMPROVE GAINS**



OUR OBJECTIVE – LEVERAGE AS9100D FOR PROCESS & PRODUCTIVITY GAINS

1


- ✓ EXAMINED **SELECTED AS9100D SECTIONS**, LOOKED AT INEFFICIENCY AND IMPACTS TO PROFITABILITY, PROCESS
 - ✓ OWNERS, SMART MEASURES

2

- ✓ CONSIDER DATA ANALYSIS & **TECHNIQUES TO ELIMINATE ROOT CAUSE/S**, REDUCE ERRORS AND CUT LOSSES & UNPLANNED COST

3

- ✓ **CONDUCT VALUE ADDED AUDITS** SO WE ARE NOT JUST COMPLIANT & CERTIFIED BUT SEEING HIGHER YIELDS, PROCESS EFFICIENCY & PRODUCTIVITY GAINS



**Do You Have
Any Questions?**





**We Thank You. Hope You Find This Of
Value. Please Reach Out To ASA For
Continued Guidance**