Team Members:

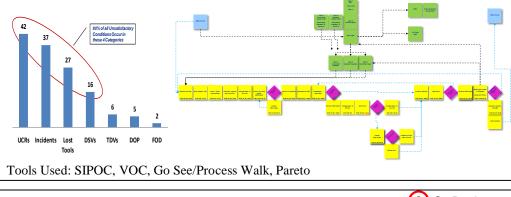
Facilitator: Cox, Spring, Dechant

Team Leader: Perleberg

Team Members: Blair, Blehm, Cox, Love, Melvin, Paul, Vieitez, Ybarra

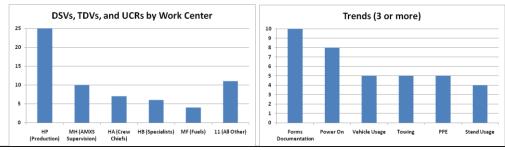
1. Clarify & Validate the Problem

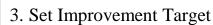
- With the recent increase in safety observations there is a fear that this indicator, along with the increase in FOD incidents, dropped objects, erratic MC rates, late take-offs, and scheduled maintenance delinquencies that a catastrophic event is imminent. Problem Statement Clarified:
 - Large amount of safety observations •
 - Need to minimize the multipliers that lead to unsatisfactory conditions
 - High rate of DSVs, TDVs, and UCRs ٠
 - Repetitive problems and trends

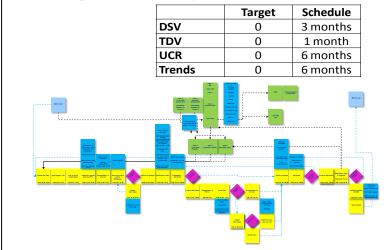


2. Break Down the Problem/Identify Performance Gaps

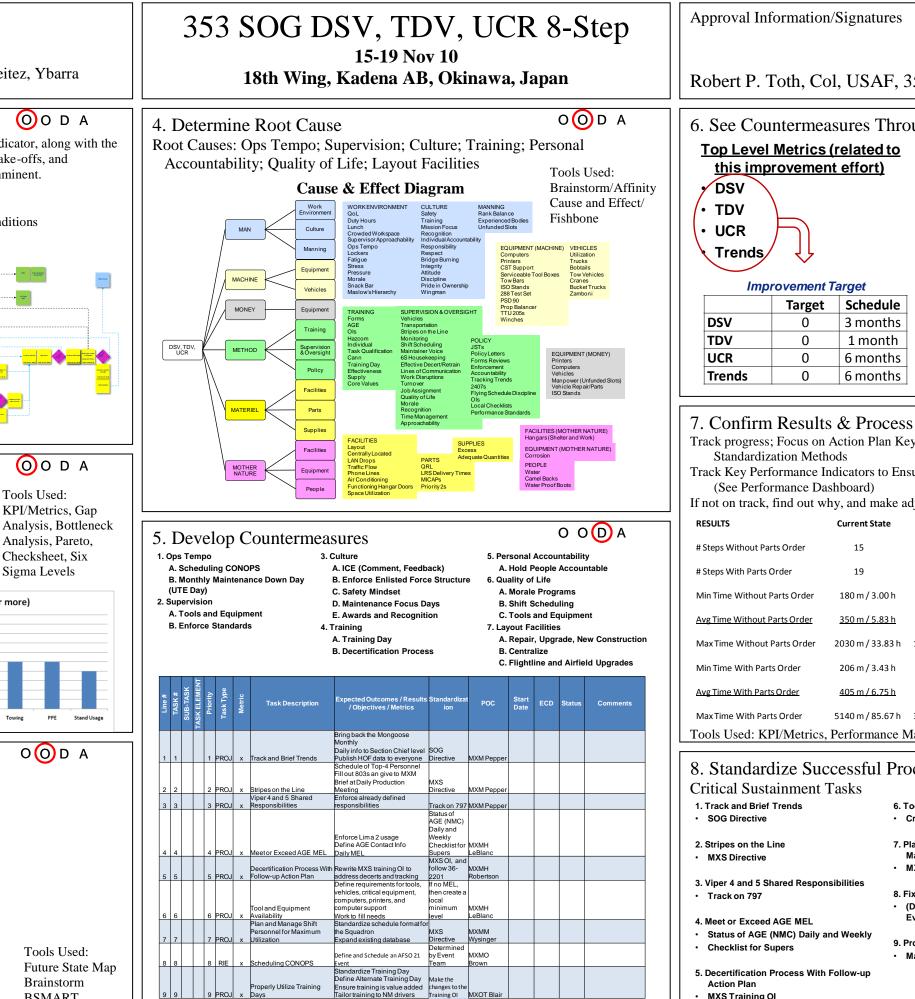
	Total	Avg/Month	% of Total	Standard	Gap
DSV	16	1.3	.9%	0	16
TDV	6	.5	.3%	0	6
UCR	42	3.5	2.3%	0	42
Trends	6	n/a	n/a	0	6







Tools Used: Brainstorm **BSMART**



Tools Used: Brainstorm/Affinity, Action Plan, BSMART

Robert P. Toth, Col, USAF, 353 SOG/CC Date:

6. See Countermeasures Through

Top Level Metrics (related to this improvement effort)

Second Level Metrics

- Stripes on the Line Viper 4 and 5 Responsibility Compliance
- Mongoose Monthly
- 803s Use and Discipline
- Monthly HOF Data Published Squadron Wide
- Lima 2 Usage
- Meet or exceed AGE MEL
- Meet or exceed MEL of Locally
- **Developed Critical Equipment Listings** Supervisor Response and Actions to DSV, TDV, and UCRs
- Effective Use of Decert and Retrain and Compliance with AFI 36-2201
- Are Training Day Topics Included Training and Education on Current Trend Items, and NMCM Drivers

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MXS Training OI

Follow 36-2201

Schedule

3 months

1 month

6 months

6 months

- Track progress; Focus on Action Plan Key Tasks, and Critical Sustainment Tasks of
- Track Key Performance Indicators to Ensure Expected Outcomes and Results are Realized (See Performance Dashboard)
- If not on track, find out why, and make adjustments

	Current State	Future State	Delta	Improvement	
Order	15	15	0	0.0%	
der	19	19	0	0.0%	
rts Order	180 m / 3.00 h	101 m / 1.68 h	79 m / 1.32 h	43.9%	
rts Order	<u>350 m / 5.83 h</u>	<u>225 m / 3.75 h</u>	<u>125 m / 2.08 h</u>	<u>35.7%</u>	
rts Order	2030 m / 33.83 h	1795 m / 29.92 h	235 m / 3.92 h	11.6%	
Order	206 m / 3.43 h	127 m / 2.12 h	79 m / 1.32 h	38.3%	
<u>Drder</u>	<u>405 m / 6.75 h</u>	<u>280 m / 4.67 h</u>	<u>125 m/2.08 h</u>	<u>30.9%</u>	
Order	5140 m / 85.67 h	3475 m / 57.92 h	1665 m / 27.75 h	32.4%	
/Metrics, Performance Management, Standard Work					

ize Successful inment Tasks	Processes	0 0 D (A)
rends	6. Tool and Equipment Availability Create a local minimum level 	
ne	 7. Plan and Manage Shift Personnel for Maximum Utilization MXS Directive 	
ared Responsibilities AGE MEL MC) Daily and Weekly pers rocess With Follow-up	 8. Fix Scheduling CONOPS (Define and Schedule an AFSO 21 Event) 9. Properly Utilize Training Days Make the changes to the Training OI 	Tools Used: Standard Work Checkpoints
		Report Out

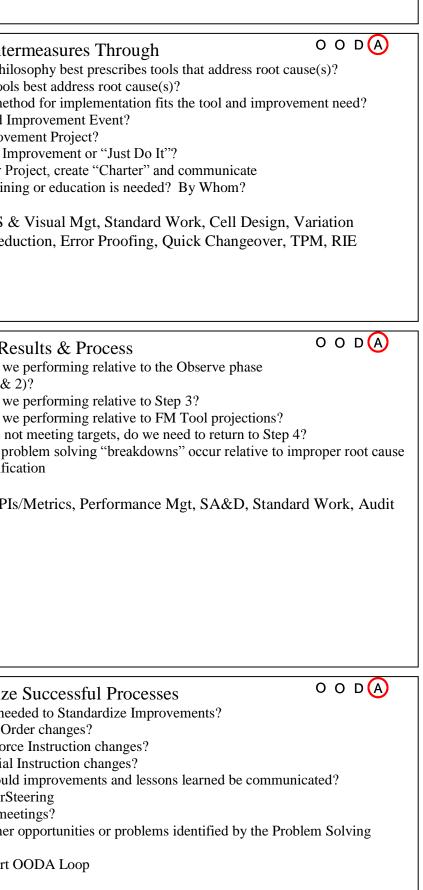
Tools Used:

Visual Management, Standard Work. TPM, RIE



O O D (A)

OODA – Observe, Orient, Decide, & Act 8-Step Problem Solving Model	Air Force Problem Solving Process & Related Toolsets	Approval Inform
 1. Clarify & Validate the Problem O D A a. Does this problem, when solved, help meet needs identified by the organization? Is it linked to the SA&D of organization? Does this problem, when solved, address key issues identified during SWOT analysis? c. Has this problem been identified and directed by a Value Stream Map at the appropriate level? What does the "Future State" need? What opportunities were identified or observed by the process or problem area "walk"? Will addressing or improving these issues deliver results that relate to #a or #b? Will addressing or improving this problem deliver the desired future state from #c? TOOLS: SA&D, Voice of Customer, VSM, Go & See 2. Break Down the Problem/Identify O D A Performance Gaps a. Does the problem require more analysis or does leadership have enough information to execute a solution? Is this simply a leadership directive? b. If more data is needed, how do we measure performance now? What are the KPIs? What is the performance gap? Does the data indicate are the potential root causes? Does the data indicate are the potential root causes? Does the data review indicate a bottleneck or constraint? TOOLS: KPI/Metrics, Performance Gap Analysis, Bottleneck Analysis 	 4. Determine Root Cause a. What root cause analysis tools are necessary? Why are these tools necessary? What benefit will be gained by using them? Who will need to be involved in the root cause analysis? 10 heads are better than one Remember "cultural" issues related to problem b. What is (are) the root cause(s) according to the tools? c. How will addressing these addressed? d. Will addressing these address the performance gap? e. Can the problem be turned on or off by addressing the root cause? f. Does the root cause make sense if the 5 Whys are worked in reverse? Working in reverse, say "therefore" between each of the "whys" TOOLS: 5 Whys, Brainstorming, Pareto, Affinity, Fishbone, Control Charts 5. Develop Countermeasures Tools and philosophies from Lean, TOC, 6 Sigma and BPR as appropriate b. Select the most practical and effective countermeasures c. Build consensus with others by involving all stakeholders appropriately Cormunicate, communicate, communicate d. Create clear and detailed action plan SMART actions Reference Facilitation Techniques as appropriate 	 6. See Counter a. Which phild b. Which tools c. Which meth Rapid In Improve Point Im d. If RIE or Pr e. What training TOOLS: 6S & Reduce 7. Confirm Re a. How are weighted the second sec
 3. Set Improvement Target a. Is the improvement target measurable? Is it concrete? Is it challenging? b. Is the target "Output Oriented"? What is the desired output? Should be "things to achieve"; should avoid "things to do" Will be addressed by Action Plans (Step 5) c. The desired target should: Do what? By how much? By when? d. If it is a Process Problem, what is the future state? How will it be realized? TOOLS: Ideal State, Future State Mapping, SMART 		8. Standardize a. What is nee - Tech Or - Air Forc - Official b. How should - PowerSt - Key med c. Were other Process? - Restart O TOOLS: Cheo Broa



neckpoints/Standardization Table, Report Out Theme Story, oad Implementation, CPI Mgt Tool