Team Members:

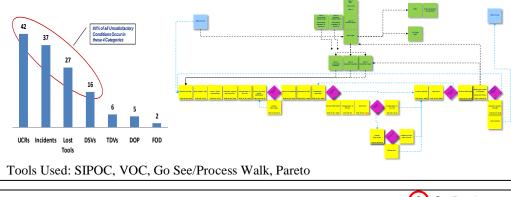
Facilitator: Cox, Spring, Dechant

Team Leader: Perleberg

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

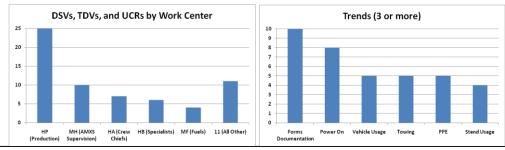
1. Clarify & Validate the Problem

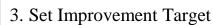
- With the recent increase in safety observations there is a fear that this indicator, along with the increase in FOD incidents, dropped objects, erratic MC rates, late take-offs, and scheduled maintenance delinquencies that a catastrophic event is imminent. Problem Statement Clarified:
  - Large amount 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

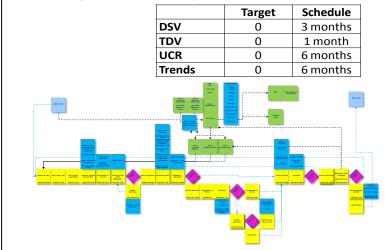


2. Break Down the Problem/Identify Performance Gaps

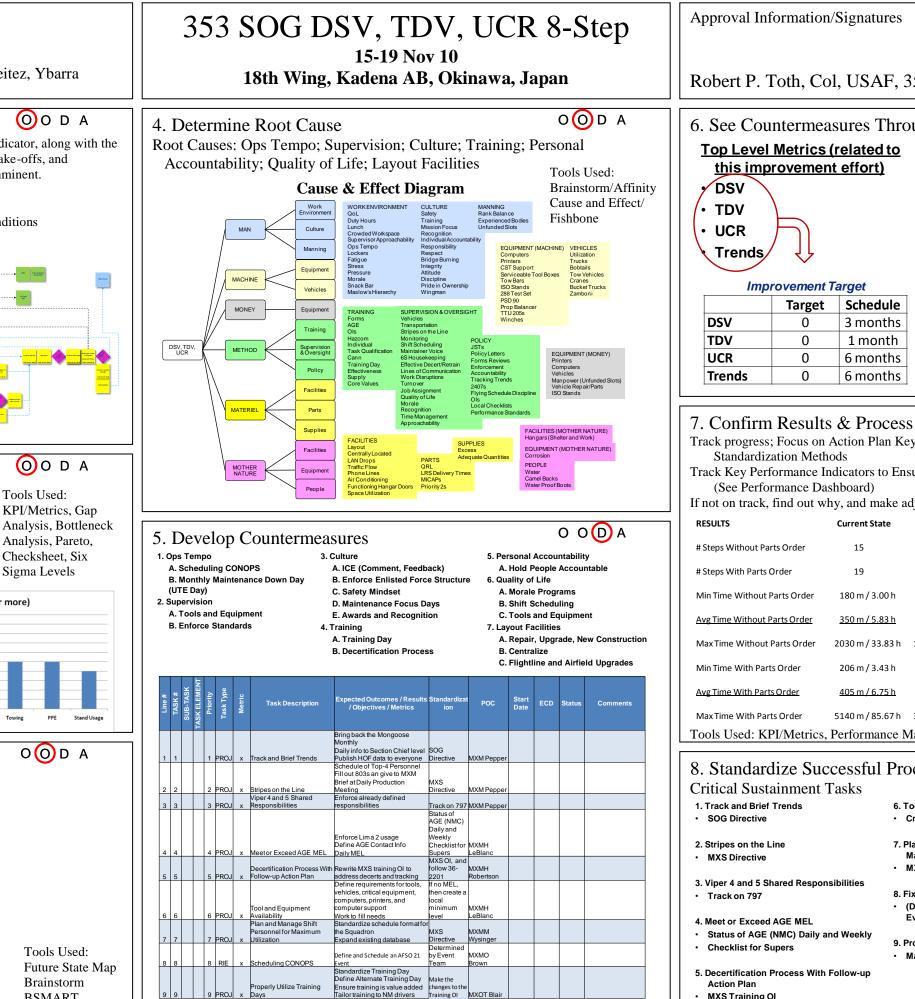
	Total	Avg/Month	% of Total	Standard	Gap
DSV	16	1.3	.9%	0	16
TDV	6	.5	.3%	0	6
UCR	42	3.5	2.3%	0	42
Trends	6	n/a	n/a	0	6







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

0

0

0

0

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 <ul> <li>Create a local minimum level</li> </ul>	
ne	<ul> <li>7. Plan and Manage Shift Personnel for Maximum Utilization</li> <li>MXS Directive</li> </ul>	
ared Responsibilities AGE MEL MC) Daily and Weekly pers rocess With Follow-up	<ol> <li>8. Fix Scheduling CONOPS</li> <li>(Define and Schedule an AFSO 21 Event)</li> <li>9. Properly Utilize Training Days</li> <li>Make the changes to the Training OI</li> </ol>	Tools Used: Standard Work Checkpoints
		Report Out

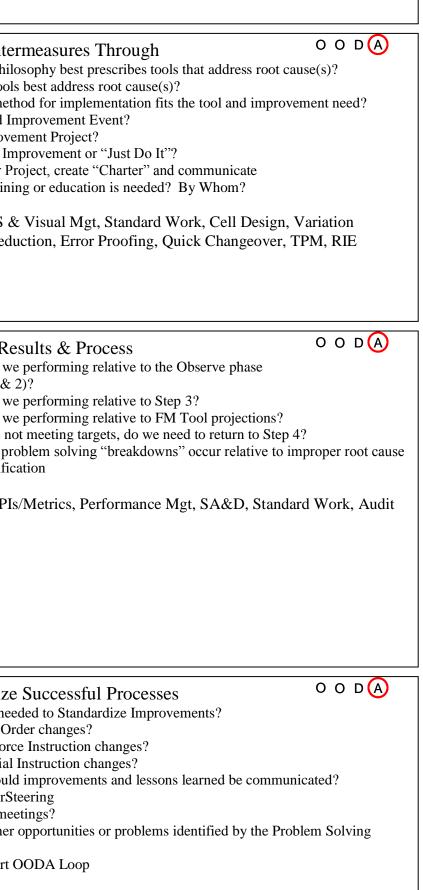
# Tools Used:

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