



School of Aviation Safety

NAS Pensacola



Welcome Aboard!





NASC



- Food
- Heads
- Smoking



Lunch



- **O Club**
 - Lunch 1100-1400 – Tues-Fri
 - Bar 1500 to close – Wed-Fri
 - Take out available – 452-2026
- **Subway, Asian, Italian – NEX**
- **Taco Bell & Pizza Hut, A&W – Portside Club**
- **The Oaks at the Golf Club**
- **Naval Aviation Museum - Cubi Point Bar**
- **Navy Yard Eatery – Daily Specials**
- **Off Base via front gate**



MAPS



**Naval Aviation
Museum**



BOQ

Aviation Plaza



Portside



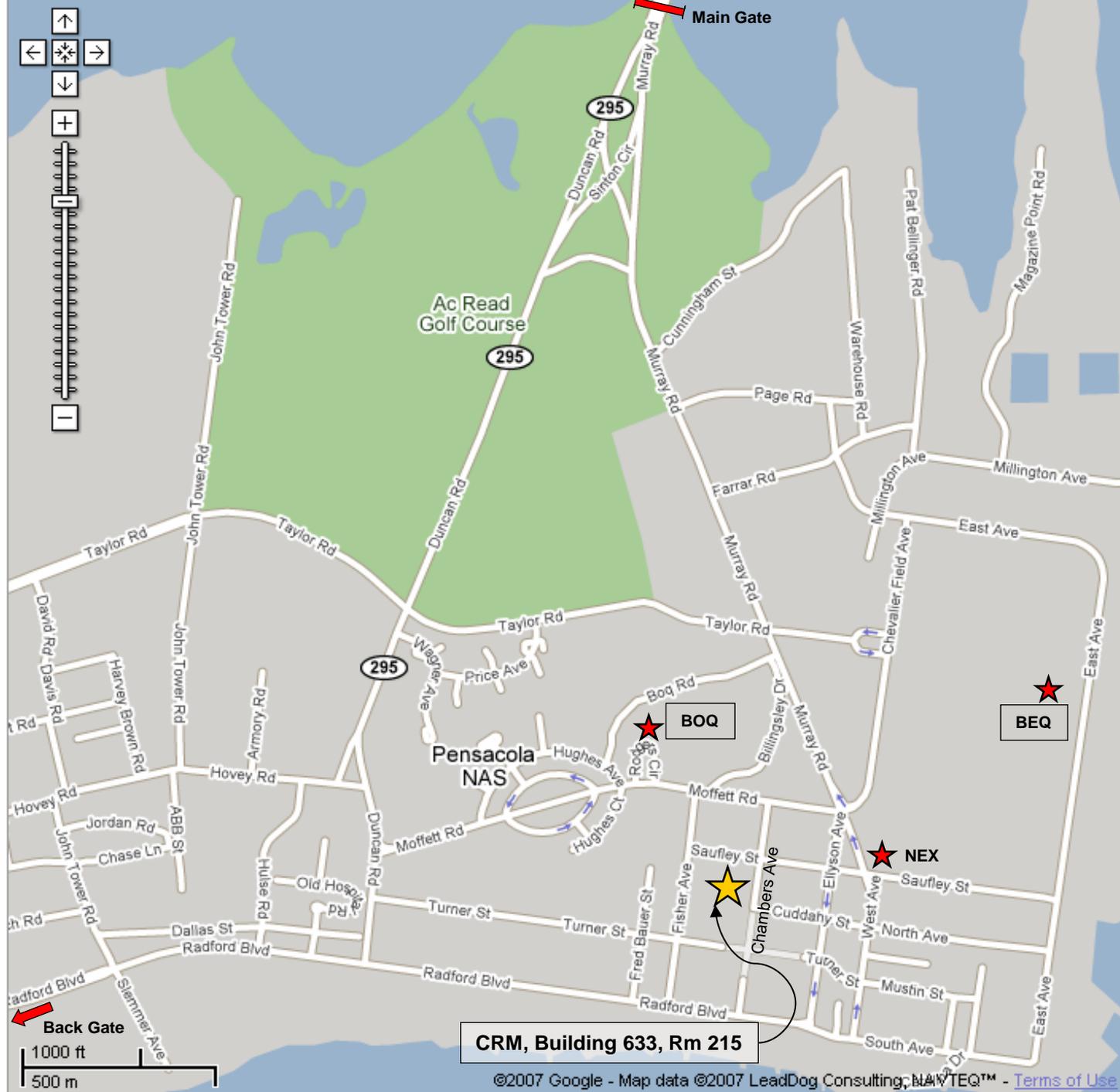
Starbucks

Galley



O Club





CRM, Building 633, Rm 215

Back Gate
1000 ft
500 m



Updated Course



- Case study centric 7 skills lectures
- Minimal definition based lectures
- Updated Instructional techniques



Why do we discuss the 7 skills of CRM?



CRM: The effective use of all available resources by individuals, crews and teams to safely and efficiently accomplish the mission or task. CRM also refers to identifying and managing the conditions that lead to error.



Webster's Dictionary



- Error: an act that through ignorance, deficiency, or accident departs from or fails to achieve what should be done "**an error in judgment**"



"NATOPS manuals provide the best available operating instructions for most circumstances, but no manual is a substitute for sound judgment."



GOOD CRM



On September 2nd 2013, 64-year old, Diana Nyad completed the 110-mile swim to become the first person to swim from Cuba to Florida without a shark cage.



Good CRM



January 15, 2009; CAPT Sullenbergers ditched flight 1549 in the Hudson river after a bird strike saving 155 souls.



“It was our CRM training that enabled my crew - which included my First Officer, Jeff Skiles, and three flight attendants - to land on the Hudson River that frigid January day and safely evacuate 150 passengers without a life-threatening injury or fatality”

Captain Chesley “Sully” Sullenberger



Bad CRM





Bad CRM



Just realized this was a bad idea.





Bad DM





Bad DM (cont.)





Good A/F



120 DB BASS MUSIC

I dare you to play it now.

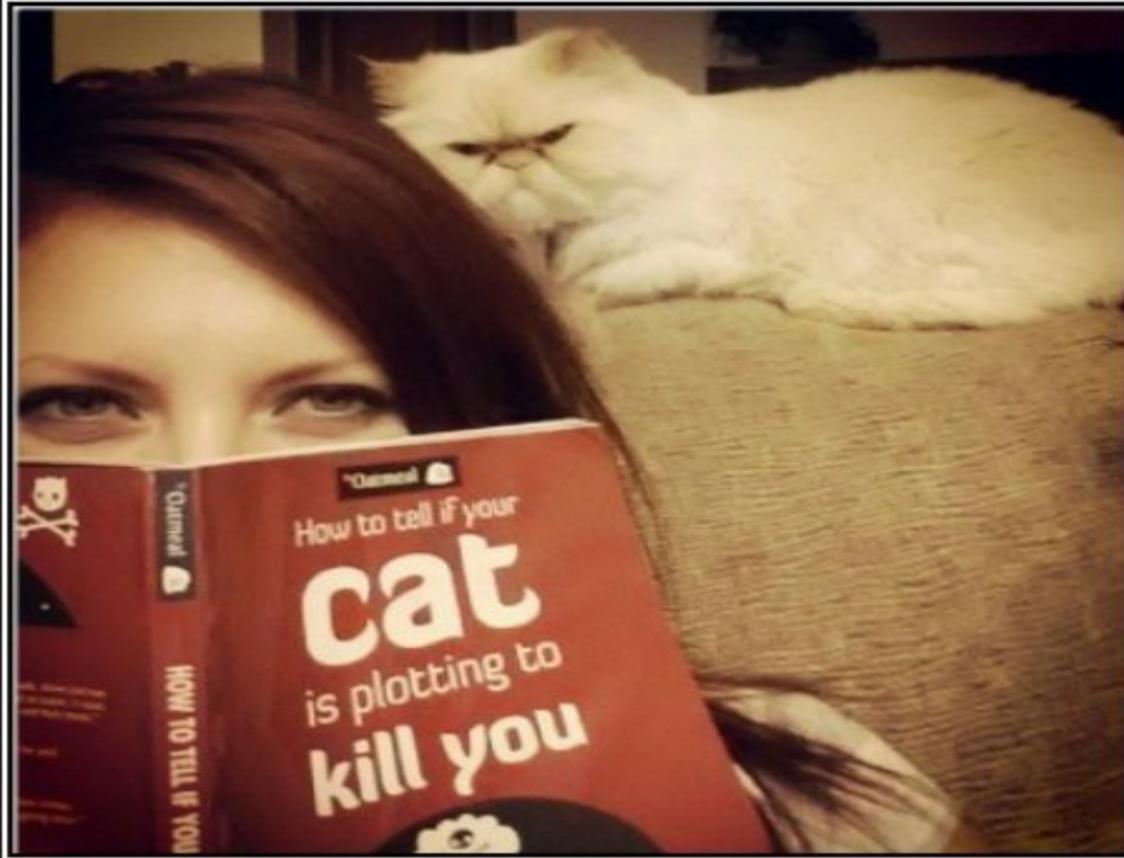


Poor A/F





Good MA



THE BOOK

isn't really necessary in this case...

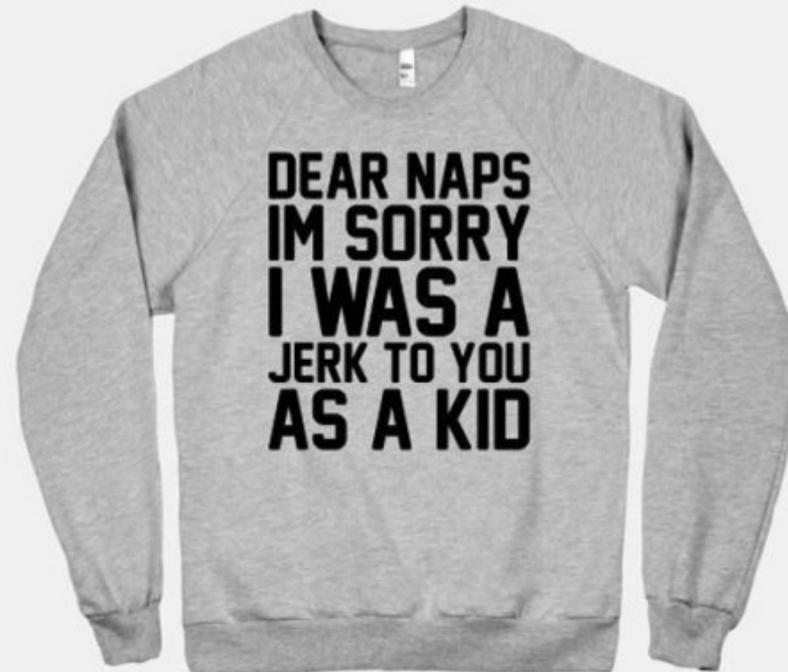


Poor MA





Fairly Decent CM





Poor CM



Proposed rewrite: “International Cuisine”



Poor (insert skill here)





Over Assertive, Poor SA, Poor MA





Good SA, Good MA





Poor SA





Poor SA, Poor MA



Now that's just wrong!



Just Saying





Cross Section



- Those pics represent a cross section of society that has unfortunately crossed over into our communities



NSAS Mission



To **EDUCATE** aviators at all levels to:

Identify hazards

Manage risks

Investigate and report mishaps

Develop and administer command safety programs

ASC - ASO - CRM

To foster and conduct safety-related research, and provide assistance in support of the Naval Aviation Safety Program

Thereby,

Enhancing Combat Readiness

through the Preservation of Human and Material Assets



CRM Mission



***“Supporting Mission Effectiveness through
Enhances Aircrew Performance”***

Our goal is to defeat

THE BLUE THREAT!



USN

Red vs. Blue



- Aviation Box Score

- Desert Shield/Storm

- Blue - 24 Class A mishaps resulting in 15 deaths
- Red - 6 combat losses with 6 deaths

- Since 9-11:

- Blue - 175 Class A mishaps resulting in 90 deaths
- Red - 1 combat loss with zero deaths

- Ship/Sub Box Score

- Since 30 July 1969 (earliest NAVSAFECEN data) and counting only those mishaps involving 2 or more deaths:

- Blue - 90 incidents resulting in 286 deaths, 3 ships lost: USNS Sgt Jack J. Pendleton (Grounding), USS La Moure County (Grounding), USS Guardian (Grounding)
- Red - 54 hostile deaths, 0 ships lost: 17 deaths on USS Cole (Improvised Explosive Device), 37 deaths on USS Stark (Anti-Ship Missile), No deaths on USS Samuel B. Roberts (Mine) or USS Princeton (Mine)



USMC

Red vs. Blue

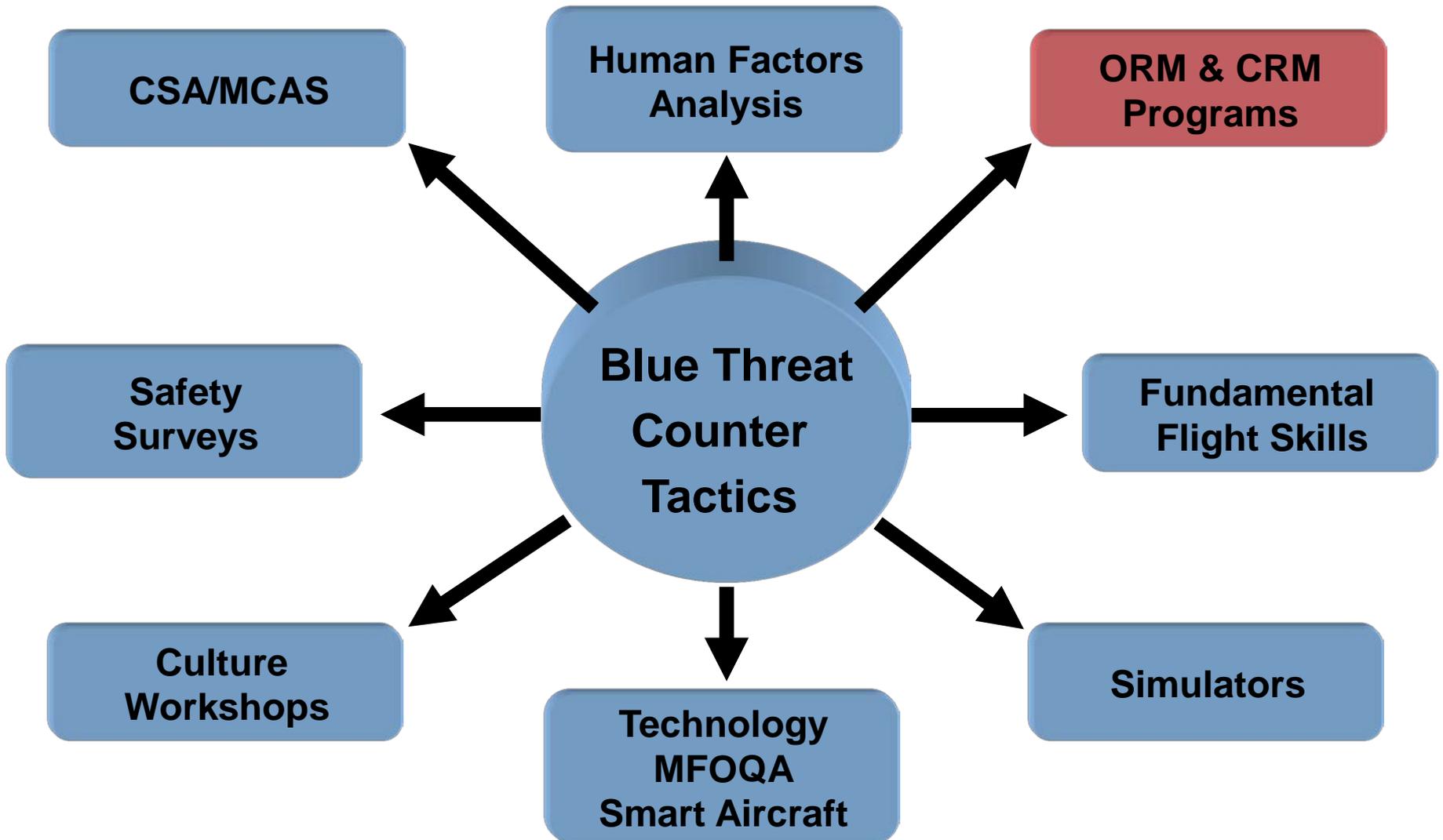


From OIF 1 to September 2014 there has been **13 aircraft losses and 14 fatalities** attributed to the "**Red Threat,**" where **82 aircraft losses and 116 fatalities** have been attributed to the "**Blue Threat**"

MAWTS-1 Tactical Risk Management (TRM) course in Yuma, AZ.



Blue Threat Mitigation Strategies





CRM Is:



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- Use all available resources to Increase Operational Mission Effectiveness
 - The goal is to increase mission effectiveness by :
 - Minimizing crew preventable errors
 - Maximizing crew coordination
 - System of behavior modifications
 - Optimizing risk management

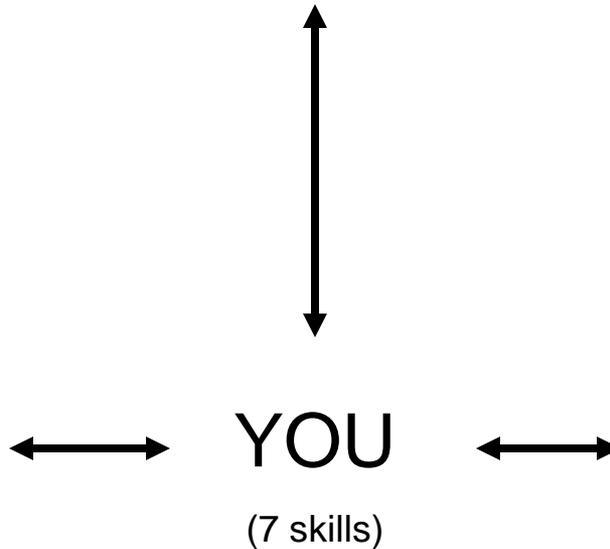
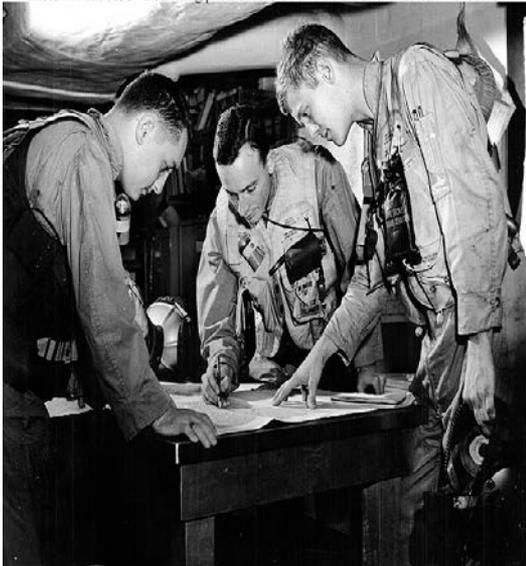


Translation: CRM is...

Ability to use all available resources...

...in order to accomplish your mission.

Photo # NH197098 Debriefing pilots aboard USS Antietam after a Korean War strike





CRM



Instructional Model Manager

- Educate approximately 456 CRMIs per year
- CRM-I course
 - 4 day course every month
 - 18 students per class (216 per year)
- **Mobile Training Team (MTT)**
 - 10 times per year to Fleet concentration area
 - 24 students per class (240 per year)
- Assist Visits (30-40 per year)
 - FRS/Wing Program Manager
 - All T/M/S platforms (over 45)
- Conference Attendances
- Fleet Support



CLASSROOM PARTICIPATION RESPONSIBILITIES



**YOUR
PARTICIPATION
IS THE KEY**

Why?...





Because in one week....



- Your squadron is going to expect a:
 - Human factors expert
 - Stan / Eval expert for check rides
 - Curriculum development expert
 - Possibly a contractor interface expert
 - Scenario development expert and POC for check ride and curriculum integration matters
 - All around CRM Guru



SUMMARY



- Class Introductions
- Administration
- Syllabus Overview
- Course Format
- Classroom Participation Responsibilities
- Course Evaluation

