CHANGE BEGINS WITH YOU!

INNOVATION STREAM

18 october

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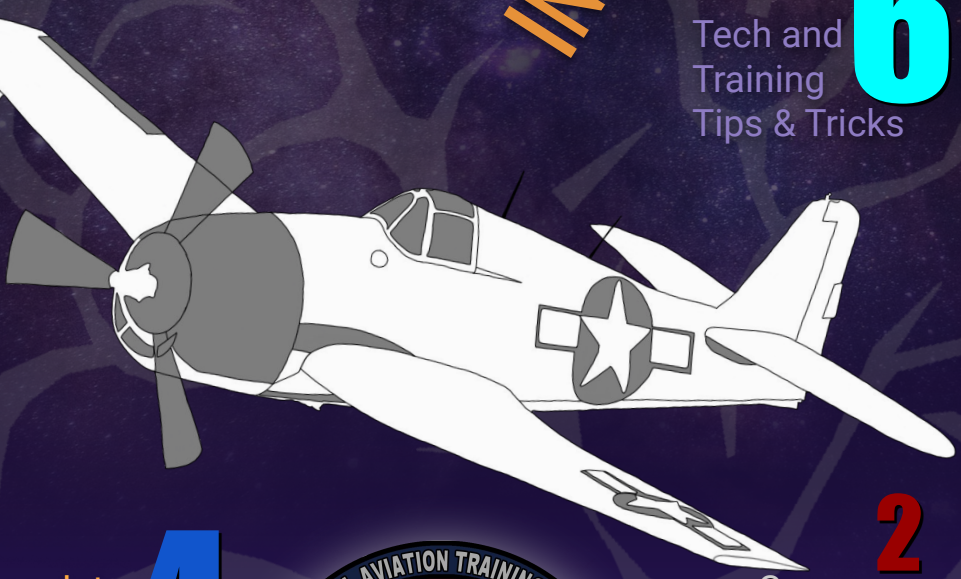

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Technique Only
PRIMARY EDITION

Michael “NASA” Kaiser

Technique Only: Primary Edition on Spotify is a podcast that discusses T-6 Techniques and Tricks for both IPs and students. Michael Kaiser is a VT-28 Instructor Pilot at Naval Air Station - Corpus Christi and he started this podcast to share experiences from expert pilots to students to help them learn quicker and receive a better sense of how things will work in their future.

What is the Grumman F6F Hellcat?

Credit: Wikipedia

The Grumman F6F Hellcat was a World War II fighter airplane that dominated battle in the Pacific War’s second half. It was a major influence in obtaining air superiority due to its design for carrier landings, even outplaying the Vought F4U Corsair, a faster aircraft. The Hellcat was created to replace the F4F Wildcat and to counter the Japanese Mitsubishi A6M Zero. Its wings were the largest of all fighters at the time and required them to be folded while stored on the carrier.

Project Hellcat was named after this elite fighter bomber and will allow students to more quickly learn fighter concepts in the T-6B Texan II strike intermediate syllabus. In addition to the creation of patches, t-shirts, and courseware conversions, BATCELL personnel are now recording and editing new flight maneuver videos of T-6B mock combat procedures to be used in the Hellcat syllabus once completed and approved for aviation students.

Wings Folded

The Hellcat's patented wing-folding mechanism made for compact stowage. (National Archives)

Production News

Patches

The BATCELL is developing and making patches for CNATRA innovation programs. Due to interest in the cover graphic from the initial BATCELL newsletter, a modified patch was created for the BATCELL effort.

Project Hellcat is picking up steam, so the BATCELL developed a patch to celebrate this effort as well. LCDR Tony Matheus' vision of using the obsolete Fleet Squadron 191's Satan's Kitten patch came to life with Texan and American glory. Staying true to Naval History, Matheus desired to keep the original cat image, but add dueling T-6 Texan and WWII Grumman F6F Hellcat planes with Texas and US flags tailing each.

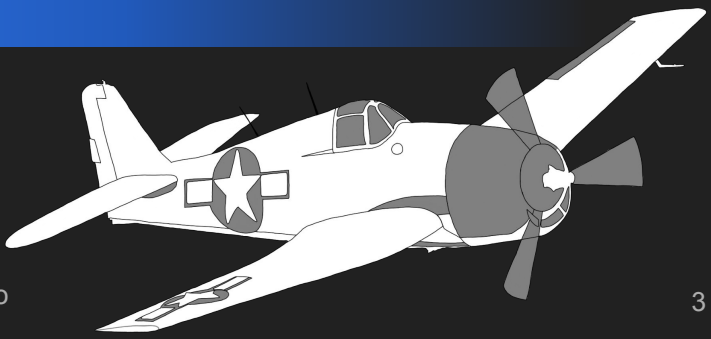
Courseware

The innovation effort to modernize T-44C courseware is under way this month. The BATCELL is converting self-paced aviation instruction and electronic lectures to an editable format for subject matter experts to improve.

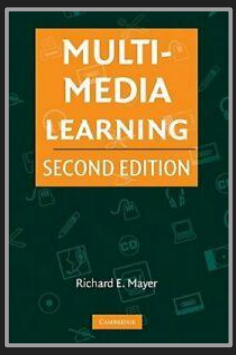
Project Hellcat flight students will soon experience 21st Century learning, an effort that intends to decrease wasteful instruction, speed up training, all while improving learning and retention.

T-Shirts

Using the Grumman F6F Hellcat plane image, the BATCELL redrew the aircraft from scratch. T-Shirts are in production to be worn under flight suits.



Theory Into Practice



Multimedia Learning 2nd Ed. by Richard Mayer

To improve learning, we must first understand how people learn. Mayer's Cognitive Theory of Multimedia Learning includes three Cognitive Science Assumptions and twelve multimedia principles to aid with instructional design. You can read a general summary of the assumptions of cognitive load and information processing here and here if interested. For this newsletter, we would like to focus on the instructional design aspects of this learning theory, specifically regarding the twelve multimedia principles. These principles will help instructors design multimedia content to take advantage of how students learn without causing unnecessary load.

12 MULTIMEDIA PRINCIPLES for INSTRUCTIONAL DESIGNERS

Coherence Principle
People learn better when extraneous words, pictures, and sounds are **excluded** rather than included.

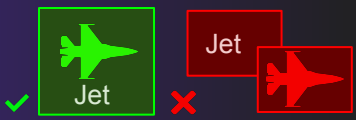
What's Important?

Signaling Principle
People learn better when cues that **highlight** the organization of the essential material are added.

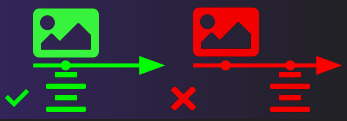
HEY! Look at this!

Redundancy Principle
People learn better from **graphics and narration** than from graphics, narration, and on-screen text.

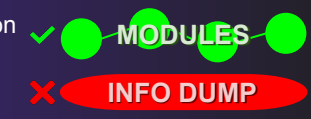
Spatial Contiguity Principle
People learn better when corresponding words and pictures are presented **near rather than far** from each other on the page or screen.



Temporal Contiguity Principle
People learn better when corresponding words and pictures are presented **simultaneously** rather than successively.



Segmenting Principle
People learn better from a multimedia lesson presented in **user-paced segments** rather than as a continuous unit.



Pre-Training Principle

People learn better from a multimedia lesson when they **know the names and characteristics** of the main concepts.

Modality Principle

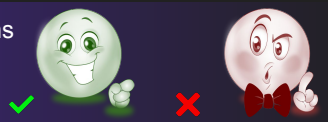
People learn better from **graphics and narrations** than from animation and on-screen text.

Multimedia Principle

People learn better from **words and pictures** than from words alone.

Personal-ization Principle

People learn better from multimedia lessons when words are in **conversational style** rather than formal style.



Voice Principle

People learn better when corresponding words and pictures are presented **simultaneously** rather than successively.

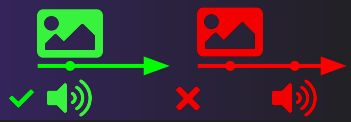


Image Principle

People do **not** necessarily learn better from a multimedia lesson when the **speaker's image** is added to the screen.

REMEMBER!

YOU WANT TO REDUCE COGNITIVE LOAD.

FUN FACT

Our brains cannot multitask very well.

Tech and Training Tips & Tricks

We are always looking for ways to make training and administrative processes quicker and easier.

Please take care of the iPad that you are issued. We have received 15 smashed iPads that were checked back in by students.

- When getting into and out of the cockpit, please do not leave your iPad on the mantle where the cockpit closes and then pull down the window.
- The iPad case can break too, so please do not place heavy objects onto it or handle it with force.

While you may not be charged for a broken iPad, if we find out that you threw your iPad or otherwise intentionally damaged it, you will be billed the replacement cost.

We encourage you to purchase anti-glare screen protectors and ask iPad Issue about an EKB strap or EKB mount.

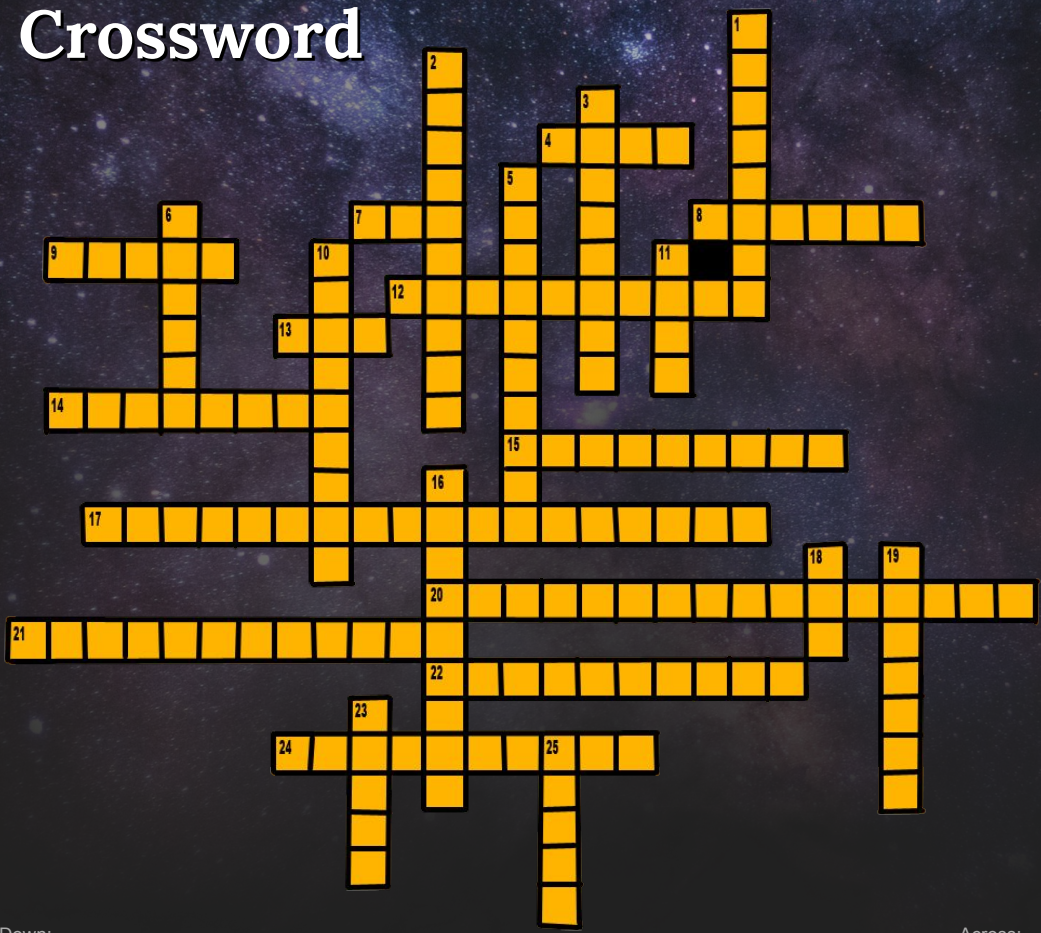
ELECTRONIC KNEEBOARD HELP

For specific questions, please review the tutorials and CNATRA Podcasts in CloudSync2 if you have any issues with your electronic kneeboard or ForeFlight and CloudAhoy.

Recent issues include:

- While CloudSync2 is a very useful cloud storage tool, it has its technical difficulties and design flaws. For instance, **please do not try to download more than one file at a time.** CloudSync2 will get stuck and never recover.
    - **To fix this**, go to the Home Screen and hold onto the CloudSync2 app. Select “Delete app.” Go to the “NavairAppCatalog” on the Home screen and re-download CloudSync2. The app will load back onto the Home screen.
- Now that students are receiving iPads that have been turned back in after a previous student finished training, you may run into an issue where that **student is still logged into their accounts**. **Please just log them out and log yourself in with your account.**
- We are here to help! For technical assistance, please see iPad Issue (Bldg 1824, Rm 204) or the BATCELL office (Bldg 1824, Rm 112E, x1919).

Aviation Weather Crossword



Down:

1. Convective clouds on which side of mountains indicate turbulence is present?
2. Cumulus clouds are good indicators of what type of turbulence?
3. What kind of condition can move vortices of the preceding aircraft forward into the touchdown zone?
5. What is the single, most intense weather hazard to aircraft?
6. What is the basic factor in determining vortex strength?
10. What kind of wind will decrease the lateral movement of the upwind vortex and increase the movement of the downwind vortex?
11. What type of ice would you expect to form in temperatures between -15 and -20 degrees Celsius?
16. This is any rapid change in wind direction or velocity.
18. Clouds will not be present if the air is too much of this?
23. What is a cumulative hazard?
25. What is the most dangerous type of ice that may form on an aircraft's surface?

Across:

4. What kind of turbulence occurs in the wake of moving aircraft whenever the airfoils exert lift?
7. Dangerous downdrafts may be encountered on this side of the mountain.
8. All pilots should respect the wake of what kind of aircraft?
9. What type of ice would you expect to form when the temperature is between -10º C and -15º C?
12. What kind of clouds mean stable air?
13. At what altitudes are convective currents a common cause of turbulence?
14. On the Constant Pressure Analysis Chart, short, fine dashed lines indicating lines of constant wind speed are called what?
15. This layer of air is where warm and cold air combine.
17. What is the most hazardous aspect of structural icing?
20. What is the first rule about flying in turbulence?
21. These clouds generate violent convective turbulence and have anvil-like tops.
22. What aircraft vortices should you avoid?
24. Stratocumulus clouds in rows or bands are an indication of what type of turbulence?

On the Horizon

Project Avenger is now at TW-5 with their first class.

Project Corsair will be in Kingsville.

Project Hellcat will be coming down the pipe.

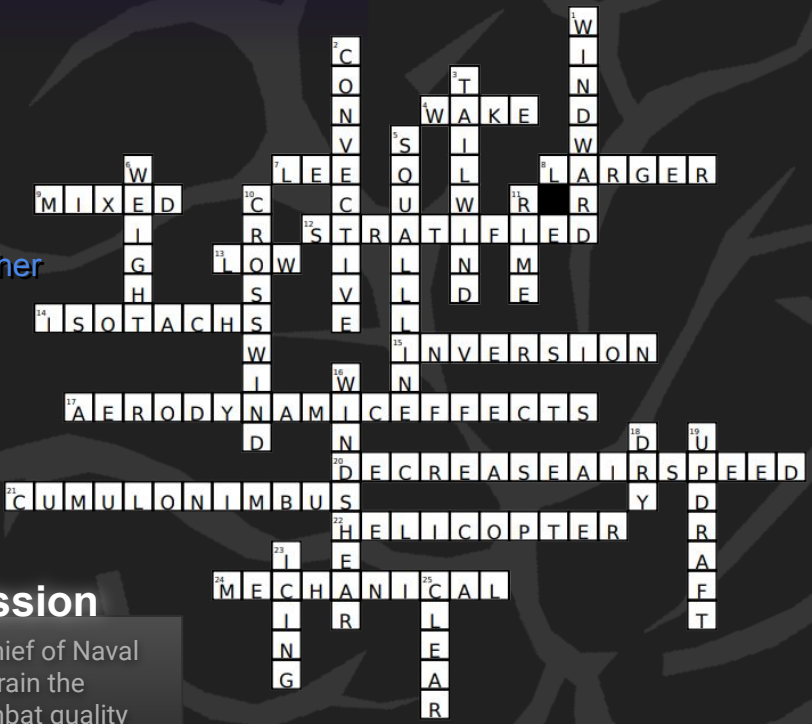
Project Corsair will then come to Meridian.

Questions?

The BATCELL is growing quickly and we are open to questions, comments, and ideas for improvement and innovation. Please send an email to the Gmail account below.

NavalAviationTrainingNext@gmail.com

Aviation Weather Crossword Answer Key



Our Mission

The mission of Chief of Naval Air Training is to train the world's finest combat quality aviation professionals, delivering them at the right time, in the right numbers, and at the right cost to a Naval Force that is where it matters, when it matters.