# CNATRA

# HQ COMMUNICATOR

NOVEMBER 2020

## /MISSION BRIEF

To safely 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.

## /WE ARE TEAM CNATRA

- We are "all in" for the mission
- We are professionals dedicated to improving ourselves, our team, and the naval services
- We lead with integrity, moral courage, and discipline
- We are accountable to the nation, our service, each other, and our families
- Integrity is our foundation

## /ADMIRAL'S SUGGESTION BOX

Got a suggestion? There are several ways to submit your suggestions to Rear Adm. Westendorff or COS:

1. Go to: https://adss.navy.mil/applications/00sb.aspx
2. Visit www.cnatra.navy.mil and click on "Contact" then "Contact Us" to find a link to the suggestion box.
3. Use the link on the SharePoint portal.
4. Use the suggestion box at the quarterdeck.

## /ON THE COVER

**MILTON, Fla.** A TH-119 Advanced Helicopter Training System is on display at Naval Air Station Whiting Field as part of Training Air Wing 5's Fleet Fly-In event. The event provided the opportunity for student naval aviators to see helicopters from across the fleet and speak with pilots. The TH-119, which will be designated TH-73A, will replace the TH-57 Sea Ranger as the Navy's undergraduate helicopter trainer. *U.S. Navy photo by Lt. j.g. Elliot Malis.*

## / COMMAND INFO

| | |
|---|---|
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| **DoD Safe Helpline:** | (877) 995-5247 |

## /NOVEMBER IN NAVAL AVIATION HISTORY

**Nov. 4, 1923:** Lt. Alford J. Williams, flying an R2C-1 equipped with a Curtiss D-12 engine, raises the world speed record to 266.59 mph at Mitchel Field, Long Island, N.Y., beating the record set by Lt. Harold J. Brow only two days before.

**Nov. 5, 1945:** Ensign Jake C. West, embarked with VF-51 aboard USS Wake Island (CVE 65) for carrier qualifications with the FR-1 aircraft, loses power on the forward radial engine shortly after taking off, forcing him to start his rear engine. Returning to his ship, he makes a successful landing, thus becoming the first jet landing onboard an aircraft carrier.

**Nov. 6, 1967:** Helicopters from USS Coral Sea (CVA 43) rescue the 37-man crew of Liberian freighter Royal Fortunes after she runs aground on a reef in the Gulf of Tonkin.

**Nov. 8, 1956:** Navy Stratolab balloon, piloted by Lt. Cmdr. Malcolm D. Ross and Lt. Cmdr. M. Lee Lewis, surpasses the world height record by soaring to 76,000 ft. over Black Hills, S.D. The flight gathers meteorological, cosmic ray, and other scientific data. For this record ascent, the men are awarded the 1957 Harmon International Trophy for Aeronauts.

**Nov. 9, 1950:** Task Force 77 makes its first attack on the Yalu River bridges. In the first engagement between MIG-15 and F9F jets, Lt. Cmdr. William T. Amen, commanding officer of VF-111, based on board USS Philippine Sea (CV 47), shoots down a MiG and becomes the first Navy pilot to shoot down a jet aircraft.

**Nov. 11, 1966:** Gemini 12 is launched with former aviator Edwin Buzz Aldrin and Cmdr. James A. Lovell, Jr., the command pilot. The mission lasts three days, 22 hours, and 34 minutes and includes 59 orbits at an altitude of 162.7 nautical miles. Recovery is done by HS-11 helicopter from USS Wasp (CVS 18).

**Nov. 14, 1910:** Civilian Eugene Ely pilots the first aircraft to take-off from a warship, USS Birmingham (CL 2) at Hampton Roads, Va.

**Nov. 18, 1922:** In a PT seaplane, Cmdr. Kenneth Whiting makes the first catapult launching from an aircraft carrier at anchor, USS Langley (CV 1), in the York River.

**Nov. 22, 1961:** U.S. Marine Corps Lt. Colonel Robert B. Robinson, flying an F4H-1 Phantom II, sets a world speed record, averaging 1606.3 mph in two runs over the 15 to 25-kilometer course at Edwards Air Force Base, Calif.

**Nov. 29, 1995:** An F/A-18E1, the first Super Hornet, makes its first flight at Lambert International Airport near St. Louis, Mo.

**Nov. 30, 1912:** Lt. Theodore G. Ellyson, the first U.S. Navy officer to qualify as an airplane pilot, tests the Navy's first C-1 flying boat at Hammondsport, N.Y.

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# Acting Under Secretary of the Navy Experiences Flight Training in South Texas

*By Lt. Michelle Tucker, CNATRA*

CORPUS CHRISTI, Texas – Acting Under Secretary of the Navy Gregory J. Slavonic experienced the Navy's new approach to primary flight training during a visit to Chief of Naval Air Training (CNATRA) at Naval Air Station Corpus Christi, Oct. 8.

CNATRA Rear Adm. Robert Westendorff showed Slavonic how CNATRA is leveraging virtual and mixed reality technology while providing flight students continuous access to interactive media in the new syllabus named Project Avenger.

Project Avenger is a prototype syllabus designed to train naval aviators to a greater level of proficiency in a shorter period of time to increase fleet aviator availability.

Westendorff and Slavonic discussed current and future aviator production during the visit. Slavonic toured various Training Air Wing 4 facilities and experienced the thrill of flight both on a virtual reality trainer device and in a T-6B Texan II turboprop aircraft, the Navy's primary flight trainer.

"We are very fortunate to have young men and women who want a career in Naval Aviation," Slavonic said. "We need young people to seek out opportunities like this and lean forward. It's not only a job it's a great journey."

Slavonic took the opportunity to speak with instructor pilots and staff who have returned to CNATRA with fleet experience.

"It's important that those who have been part of an air wing return to mentor and train the next generation," he said. To fleet aviators, "If the opportunity presents itself we need you to come here, become part of this training pipeline and ultimately use your valuable experiences to help train the next-generation of naval aviators."

Slavonic visited multiple commands in Texas to engage with Sailors and Marines and view readiness and training efforts.

**CORPUS CHRISTI, Texas** Acting Under Secretary of the Navy Gregory Slavonic tries out a virtual reality trainer device with the help of Lt. Cmdr. Kerry Bistline at Training Air Wing 4 aboard Naval Air Station Corpus Christi, Oct. 8. *U.S. Navy photo by Anne Owens.*

# CNATRA Reserve Component Changes Command

CORPUS CHRISTI, Texas -- Chief of Naval Air Training (CNATRA) Reserve Component held a change-of-command ceremony at the National Naval Aviation Museum aboard Naval Air Station Pensacola, Florida, Oct. 9.

Capt. Rigel "Pep" Pirrone relieved Rear Adm. William L. "Wilbur" Angermann as commanding officer and Angermann also promoted during the ceremony.

Commander, Naval Air Force Reserve Rear Adm. Scott Jones served as guest speaker. He praised Angermann for his leadership, keeping the team's focus on training during a challenging year.

"Since its inception, Naval Reserve aviation has been tightly aligned with the objectives of the Active Component," Jones said. "Our Squadron Augment Units provide an unparalleled level of flexibility and a graduate level of experience that compliments the active duty CNATRA instructor cadre. Wilbur has done a superb job of making CNATRA the world-class organization that it is today, and Pep – while you have big shoes to fill, I know you will continue to produce the next generation of Pilots and NFOs that will keep the Naval Aviation Enterprise winning for generations to come!"

Angermann, a native of New Hope, Pennsylvania, earned his Wings of Gold with Training Squadron (VT) 4. He served two years with CNATRA and took command of the Reserve Component in January 2019. Under his leadership, the Reserve Component mitigated active-duty manning shortfalls resulting in a 20 percent increase in CNATRA's overall aviator production.

Angermann has assumed the position of deputy commander, U.S. Naval Air Forces Atlantic. His previous tours include Commander, U.S. 3rd Fleet Maritime Air Operations Det. Fort Worth, Texas, and Reserve chief staff officer, U.S. Fleet Forces Command. He has accumulated more than 6,000 flight hours in various military aircraft and has flown more than 3,000 sorties as an instructor pilot.

"My time serving as Reserve Component commander has been a sincere honor," Angermann said. "I have worked with elite professionals who are essential to training and developing the future of Naval Aviation. My appreciation goes out to the hard working instructor pilots that make up our Reserve component."

Pirrone is a native of Buffalo, New York, and received his Wings of Gold in 2001. He previously served as an instructor pilot at both VT-7 and Strike Fighter Squadron (VFA) 125, and earned recognition as Instructor Pilot of the Year in 2008. He has completed two Western Pacific deployments aboard USS Abraham Lincoln (CNV 72) flying the F/A-18E/F Super Hornet and served as commanding officer of VFA-204. Most recently he commanded Training Air Wing 5 Reserve Component out of NAS Whiting Field in Milton, Florida. He has accumulated more than 3,500 flight hours and 250 arrested landings.

"We will continue to leverage the extraordinary talent of the men and women who have chosen to continue serving our nation after leaving active duty," Pirrone said. "Our Reservists combine extensive military and civilian leadership experience and serve as ideal instructors and mentors for the next generation of warfighters. I could not be more proud to lead this team."


**PENSACOLA, Fla.** Chief of Naval Air Training Reserve Component Commander Rear Adm. William Angermann, left, relinquishes command to Capt. Rigel Pirrone, right, during a ceremony at the National Naval Aviation Museum aboard Naval Air Station Pensacola, Oct. 9. *U.S. Navy photo by Mass Communication Specialist 2nd Class Cody Hendrix*

# /N41 News

## Upcoming Events

• TBD: T45 CLS Program Management Review (PMR) pending reschedule due to COVID.
• TBD: NATEC Corrosion Course aboard NASM pending due to COVID
• Safe for Flight AMI and Certification for TH73 tentatively scheduled for February 2021.

## Team Member Highlights

Bravo Zulu to LT Miller on passing the ACO Board

## PIEE / WAWF Help

*By Clay Watson, Cost Price Analyst*

Getting "403 Errors" when accessing the Procurement Integrated Enterprise Environment (PIEE)? The following info will help.

"Common Access Card (CAC) login is now controlled by the web browser selected by the user (e.g., Microsoft Internet Explorer, Microsoft Edge, Google Chrome, Mozilla Firefox, or Apple Safari (for mobile)). At the initial login to the PIEE, some users have encountered a "403 Error" message; this is the result of selecting the wrong CAC or Personal Identify Verification (PIV) certificate. When logging into the PIEE account, users are required to select either the "Authentication" or "ID" certificate from their CAC or PIV card. ** NOTE: At no time should a user select the "Email" certificate." from the Help Desk.

If your certificate options do not default to either Authentication Certificate or ID Certificate, you must select "More Choices" to view and select the correct certificate. After getting the "403 Error", it is also recommended that you switch browsers before attempting to log back in.

For any other PIEE related issues or access problems please contact me @ clayton.watson1@navy.mil or the PIEE help desk @ disa.global.servicedesk.mbx.eb-ticket-requests@mail.mil

## CCA Update - Simulators Earning Wings of Gold

*By Eliza Pena, Contract Administrator (CCA) CIS, COMS and TH57 ATS*

Preparing students to become pilots begins with the simulators (SIMS). During their time in flight simulator training, each student learns how to navigate the instruments, practice air traffic control communication, improve navigation skills, and mitigate risk in an aircraft from basic to advanced skills.
At the beginning of the year, Training Air Wing (TW) 4 tested and implemented a new mode/capability of communication from student to government by way of Survey Monkey. The surveys allow instructors to get a better understanding of student's experiences, and how training might be improved. With this "government-only critique process," the students are more open with their experience and their opinions. As a result, these student critiques will help CNATRA improve the simulator training experience and a develop more confident student. TW-6 in Pensacola, Florida, is implementing similar surveys.

## N4 Contract Management System

*By Judy Callejo-Garcia, Procurement Analyst*

The N4 Contract Staff has been working diligently in preparation for the new fiscal year. This is a busy time for the CNATRA Contracts Department. Thank You to Luis Garza, Daniel Rodriguez, and Floyd Spivey of the N6 Staff for their assistance with the development and the migration of our contracts to the new N4 Contract Management System. They worked hard to transform our vision into a database that allows us to track contract areas such as Performance, Sustainment, Quality, Budget and Reports. Together we improved the contract submission process of documents. Newly awarded contracts have been entered in our N4 Database Project, automating the funding document process in Contracts.

In the near future, we will be adding Property Tracker and an Administrative Contracting Officer (ACO) Over & Above (O&A) Tracker for requests from each site with the ultimate goal of automating the N4 budget submission.
Chris Poth; CNATRA N4 Aviation Life Support Systems Class Desk

## T-45 gets a facelift

T-45 BUNO 163633 recently rolled out of the hangar after a lengthy lay-up in the Mod Hangar at NAS Kingsville; something looked just a little bit different. The aircraft underwent a facelift that included Service-Life Extension Program (SLEP) and Inlet Validation Technical Directives. AFC-328 included the removal and replacement of new inlets that are designed to eliminate compressor stalls during high angle of attack maneuvers. The SLEP mods will carry the aircraft to 2035 and beyond. The modifications and validation/verification spanned 3 years, from July 10, 2017 through Aug. 3, 2020 when the Functional Check Flight was performed.

## Back in the saddle

T-45 BUNO 163655, pictured below, has re-taken the skies after suffering a mishap Nov. 2, 2007 in New Iberia, Louisiana, near the Acadiana Airport. Immediately after take-off the aircraft suffered an engine FOD and crash landed. Upon recovery and return to NAS Kingsville, it was determined that the damage was repairable. During lay-up, the aircraft went through the RAMP process, converting it from a T-45A to a T45C. The Final Check Flight was completed March 31 after all repairs and modifications were complete. The aircraft was grounded for 4,533 days.


Old jet intake.


New jet intake.

*Photos by Roderick Dubose.*

# Strike Pilot Detachment Makes Impact in El Centro

*By:Lt. j.g. Daniel Wise, VT-21*

Training Air Wing (TW) 2 conducted a successful Strike pilot detachment at Naval Air Facility El Centro, California, Oct. 2-22.

For three and a half weeks, 28 Navy and Marine Corps student naval aviators dropped their first MK-76 practice bombs from T-45C Goshawk jet trainer aircraft and flew their first low-level routes over Southern California.

With clear weather and a fleet of 19 T-45s, TW-2 completed more than 700 sorties during the detachment. Due to operations efficiencies, students were able to give extra focus to tactical formation (TACFORM) flights. During those TACFORM flight, students learn how to maneuver in combat spread and are introduced to bandit engagement with a wingman.

"These detachments are a crucial aspect of producing sea-based, fixed-wing naval aviators," Cmdr. Christopher Glandon, commanding officer, Training Squadron 21 said. "We've optimized resource allocation for strike dets that allow for a focused, yet productive period of training for our students."

The detachment success was the result of meticulous planning and coordination with base personnel, area ranges, and maintenance contractors.

"The hard work during preparation pays off when students are rewarded with seeing their actual bombs hit actual targets and getting that instantaneous feedback of how they are doing," Glandon said. "It's exciting for instructor pilots to see the rapid progression that students make in such a short period of time, and we're able to cultivate a great ready room environment akin to a fleet squadron."

Lt. j.g. Gary Prieto was one of the first students to arrive at NAF El Centro in a T-45 on a cross-country flight.

"Hearing the hits and being able to roll on a wing and see where the bomb has impacted the target has been one of the coolest things we've been able to do so far in flight school," Prieto said. "Everyone really has a good attitude, both instructors and students. Everyone is just here to get better. It's been a really positive det. overall."

Students typically fly two sorties a day starting with Strike flights where they drop MK-76 practice bombs on the Loom Lobby and Shade Tree target ranges, part of the Navy's range complex. They then move onto TACFORM, low level, section low level, and road reconnaissance flights. The Strike detachment is typically a student's first taste of Phase II, the phase where they learn how to tactically employ the jet.

NAF El Centro is an ideal detachment location because of its close proximity to a number of weapons ranges, low level routes, and its year-round clear skies. TW-2 generally conducts four detachments per year to El Centro.

Located at Naval Air Station Kingsville, Texas, TW-2 is one of two undergraduate Strike pilot training air wings under Chief of Naval Air Training and includes two training squadrons: VT-21 and VT-22. Graduates go on to fly the F/A-18E/F Super Hornet, F-35B/C Lightning II Joint Strike Fighter, AV-8B Harrier, EA-18G Growler, E-2C/D Hawkeye, or C-2A Greyhound in the fleet.


**EL CENTRO, Calif.** Student naval aviators assigned to Training Air Wing (TW) 2 conduct a training flight in T-45C Goshawk jet trainer aircraft from Naval Air Facility El Centro Oct. 5. *U.S. Navy photo by Lt. j.g. Ross Davis.*


# TRAINING AIR WING FIVE FLEET FLY IN 2020

# Navy awards logistics, maintenance support contract for Advanced Helicopter Training System

*From Naval Air Systems Command*

PATUXENT RIVER, Md. -- The U.S. Navy awarded a contract to Vertex Aerospace, LLC (Vertex) on Oct. 20, 2020, for the Contractor Logistics and Maintenance Support (CLS) in support of the Advanced Helicopter Training System (AHTS) program for $70,438,194 for the base year, with six options for a total contract value of $465,200,548.

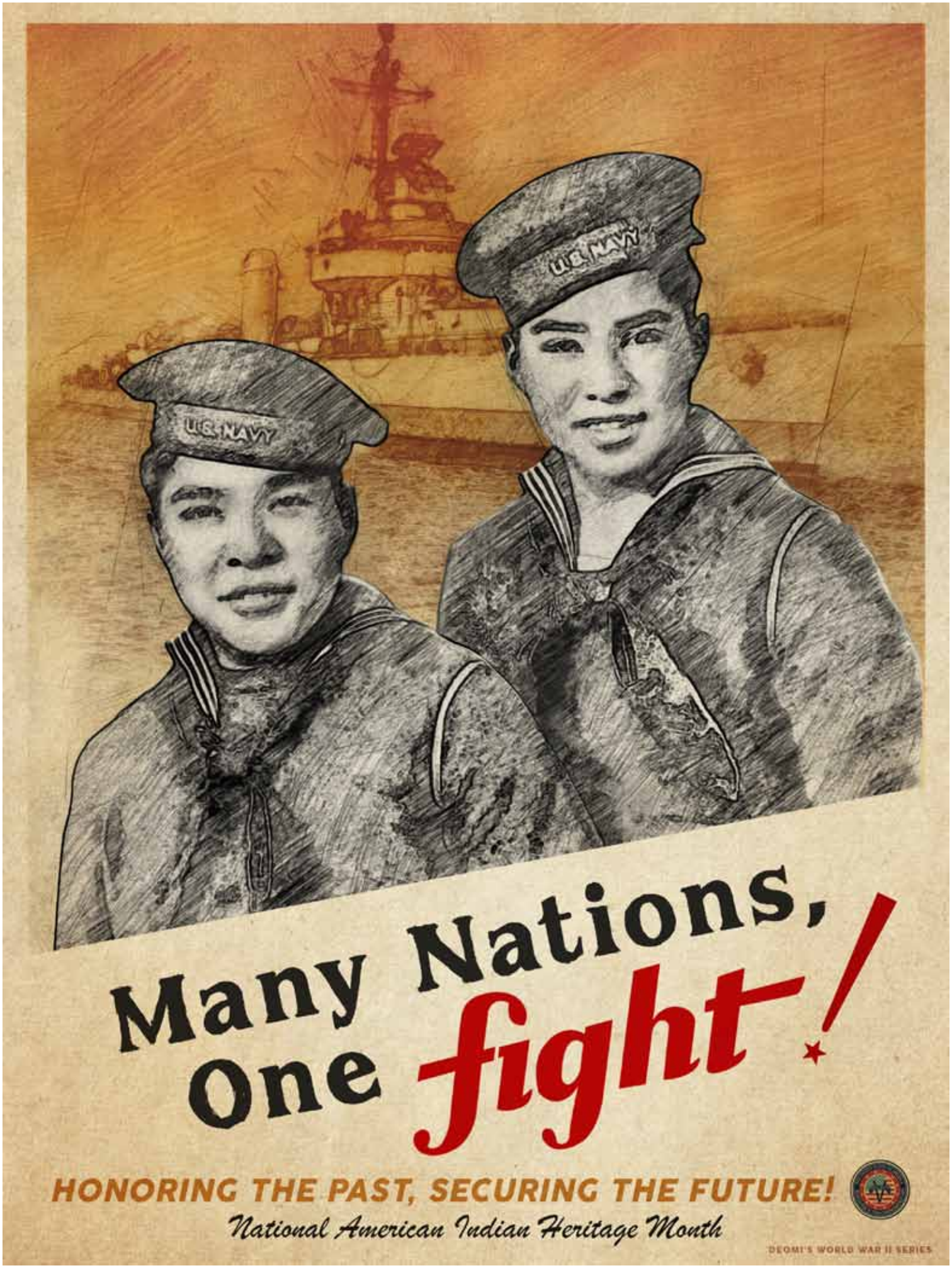
Three proposals were submitted for the contract. The task order contract for CLS was awarded on a best-value tradeoff basis with a base and six options. CLS availability is scheduled to begin in calendar year 2021 and continue through calendar year 2027.

The procurement of this CLS includes logistics, maintenance and supply for both the TH-73A and the TH-57. The resultant task order award will provide services and materials necessary to provide aircraft maintenance and logistics aircraft support for both the TH-73A and the TH-57 platforms, to include: the repair of airframe and aircraft subsystems, including engines; maintenance/repair and logistics support of support equipment (as required); and maintaining records and reporting for aircraft and associated systems.

Using a combination of best industry and Navy practices, AHTS will ensure Chief of Naval Air Training efficiently produces rotary wing aviators who are prepared for advanced rotary wing and intermediate tilt-rotor training and who will meet the challenges faced in the fleet through 2050.

"The new Leonardo TH-73A helicopters are the cornerstone of AHTS, which is the planned replacement to address the capability and capacity gaps of the current aging TH-57 Sea Ranger helicopter training platform," said Capt. Holly Shoger, Naval Undergraduate Flight Training Systems Program Office (PMA-273) program manager. "This contract ensures the Navy can successfully maintain the TH-57 helicopters until the TH-73A is operational in the fleet. Vertex will ensure the Navy has capacity to train several hundred aviation students per year at Naval Air Station Whiting Field in Milton, Florida."


*Courtesy photo.*


U.S. NAVY
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Many Nations, One fight!
HONORING THE PAST, SECURING THE FUTURE!
National American Indian Heritage Month
DEOMI'S WORLD WAR II SERIES

# 2020 Portrait of American Indian / Alaska Native Active Duty Service Members

World War I — World War II — Vietnam — 1990s

| | | |
|---|---|---|
| Air Force | 2,336 | *More than 7 out of every 1,000 Airmen are American Indian / Alaska Native* |
| Army | 3,474 | *More than 7 out of every 1,000 Soliders are American Indian / Alaska Native* |
| Marine Corps | 1,925 | *More than 10 out of every 1,000 Marines are American Indian / Alaska Native* |
| Navy | 6,671 | *Almost 20 out of every 1,000 Sailors are American Indian / Alaska Native* |

The Navajo language proved to be an unbreakable military code that assisted Navy and Marine Corps operations in the Pacific during World War II. The secret of the Navajo Code Talkers and the use of the Navajo language would not be revealed until the late 1960s. Other tribes employed as Code Talkers were also recognized in 2008.

Lt. Michael Thornton (USN) received the Medal of Honor for saving the life of another Medal of Honor recipient during a daring operation against enemy forces.

Airman Misty D. Warren is believed to be the first American Indian woman to be designated as a naval test parachutist.

**19.6%** The percent of American Indian and Alaska Native commisioned officers who graduated from a military academy.

**7.6 yrs** The average years of service completed by American Indian and Alaska Native enlisted personnel serving on active duty.

## Enlisted Occupations

| | | |
|---|---|---|
| Electrical / Mechanical Equipment Repairers | 1,965 | 318 |
| Electronic Equipment Specialists | 1,656 | 287 |
| Infantry, Gun Crews & Seamanship Specialists | 1,760 | 149 |
| Service & Supply Handlers | 1,204 | 363 |
| Functional Support & Administration Specialists | 797 | 488 |
| Communications & Intelligence Specialists | 1,014 | 260 |
| Health Care Specialists | 655 | 313 |
| Craftsworkers | 439 | 85 |
| Non-Occupational Specialists | 385 | 116 |
| Other Technical & Allied Specialists | 374 | 92 |

Male = Female =

## Officer Occupations

| | | |
|---|---|---|
| Tactical Operations Officers | 421 | 49 |
| Engineering and Maintenance Officers | 168 | 34 |
| Health Care Officers | 103 | 86 |
| Intelligence Officers | 90 | 26 |
| Administrators | 80 | 27 |
| Non-Occupational Officers | 85 | 20 |
| Supply, Procurement & Allied Officers | 74 | 26 |
| General Officers & Executives | 72 | 17 |
| Scientists and Professionals | 47 | 14 |

Male = Female =

Department of Defense Office for Diversity, Equity, and Inclusion
Fiscal Year 2020 Military Data Source: Defense Manpower Data Center

DIVERSITY MANAGEMENT OPERATIONS CENTER
DEFENSE HUMAN RESOURCES ACTIVITY
4800 MARK CENTER DRIVE, SUITE 06E22
ALEXANDRIA, VA 22350-4000

MEMORANDUM FOR: SEE DISTRIBUTION

SUBJECT: 2020 Department of Defense National American Indian and Alaskan Native Heritage Month

The Department of Defense (DoD) celebrates November 2020 as National American Indian Heritage Month. It is during this month, we acknowledge and honor more than 31,000 American Indian and Alaska Natives (AI/AN) serving in the United States military and another 7,000 serving as DoD civilian employees. As America's first indigenous people, they have a long and rich history of courageous and patriotic acts in fighting for the defense of our nation.

The Department's theme for this year is, "***Sovereignty is Sacred, Sharing Our Rights and Culture***." The AI/ANs are represented by over 500 tribes and inherent in their culture is to protect their homeland. Since the Revolutionary War, AI/ANs have played a prominent role as scouts, light troops and code talkers. This warrior spirit stems from a sense of pride and a sense of accomplishment by the young men and women in the AI/AN culture.

The Nation has benefited from the exceptional knowledge and skills held by the AI/AN community. Over 133,000 living Native Americans are veterans: 11.5 percent of these veterans are female, as compared to 8.4 percent of all other ethnicities. AI/AN veterans are Purple Heart recipients, Bronze Star medal honorees, and many have been awarded the Medal of Honor, the highest military award of the United States. Veterans like: Private Carl Gorman who, despite being punished in school for speaking his Navajo language as a child, served as a Code Talker in World War II; Master Sergeant Woodrow Wilson Keeble, Korean War veteran and the first Sioux man to receive the Medal of Honor; and First Lieutenant Nainoa K. Hoe, a Native Hawaiian who lost his life serving in Iraq, all represent the unwavering devotion to duty and the sacrifices made by the AI/AN community for our country.

As we commemorate those AI/ANs who fought in defense of our nation, also please take the time to celebrate and observe the rich culture which is steeped in the historical legacies from the first Indigenous people in America. For information please visit, https://www.deomi.org/human-relations/special-observances.cfm.

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Clarence A. Johnson
Director

# 5 Steps to Protecting Your Digital Home

More and more of our home devices—including thermostats, door locks, coffee machines, and smoke alarms—are now connected to the Internet. This enables us to control our devices on our smartphones, no matter our location, which in turn can save us time and money while providing convenience and even safety. These advances in technology are innovative and intriguing, however they also pose a new set of security risks. To be "Cyber-Smart" and connect with confidence to protect your digital home, follow the tips below:

**SIMPLE TIPS**

• Secure your Wi-Fi Network. Your home's wireless router is the primary entrance for cybercriminals to access all of your connected devices. Secure your Wi-Fi network and your digital devices by changing the factory-set default password and username.

• Double your login protection. Enable multi-factor authentication (MFA) to ensure that the only person who has access to your account is you. Use it for email, banking, social media, and any other service that requires logging in. If MFA is an option, enable it by using a trusted mobile device such as your smartphone, an authenticator app, or a secure token—a small physical device that can hook onto your key ring.

• If you connect, you must protect. Whether it's your computer, smartphone, gaming device, or other network devices, the best defense is to stay on top of things by updating to the latest security software, web browser, and operating systems. If you have the option to enable automatic updates to defend against the latest risks, turn it on. And, if you're putting something into your device, such as a USB or an external hard drive, make sure your security software scans for viruses and malware. Finally, protect your devices with antivirus software and be sure to periodically back up any data that cannot be recreated such as photos or personal documents.

• Keep tabs on your Applications. Most connected appliances, toys, and devices are supported by a mobile application. Your mobile device could be filled with suspicious apps running in the background or using default permissions you never realized you approved—gathering your personal information without your knowledge while also putting your identity and privacy at risk. Check your application permissions and use the "rule of least privilege" to delete what you don't need or no longer use. Learn to just say "no" to privilege requests that don't make sense. Only download apps from trusted vendors and sources.

• Never click and tell. Limit what information you post on social media—from personal addresses to where you like to grab coffee. What many people don't realize is that these seemingly random details are all that criminals need to know to target you, your loved ones, and your physical belongings—online and in the real world. Keep Social Security numbers, account numbers, and passwords private, as well as specific information about yourself, such as your full name, address, birthday, and even vacation plans. Disable location services that allow anyone to see where you are — and where you aren't — at any given time.

# Identity Theft & Internet Scams

Today's technology allows us to connect around the world, to bank and shop online, and to control our televisions, homes, and cars from our smartphones. With this added convenience comes an increased risk of identity theft and Internet scams. Be Cyber-Smart on the Internet — at home, at school, at work, on mobile devices, and on the go.

***Did you know?***

• The average cost of a data breach for a US company in 2019 was $8.19 million? That's an increase of 130% since 2006!

• 7-10% of the U.S. population are victims of identity fraud each year, and 21% of those experience multiple incidents of identity fraud.

# Common Internet Scams

As technology continues to evolve, cybercriminals will use more sophisticated techniques to exploit technology to steal your identity, personal information, and money. To protect yourself from online threats, you must know what to look for. Some of the most common Internet scams include:

• COVID-19 Scams take the form of emails with malicious attachments or links to fraudulent websites to trick victims into revealing sensitive information or donating to fraudulent charities or causes. Exercise caution in handling any email with a COVID-19-related subject line, attachment, or hyperlink, and be wary of social media pleas, texts, or calls related to COVID-19.

• Imposter Scams occur when you receive an email or call from a person claiming to be a government official, family member, or friend requesting personal or financial information. For example, an imposter
may contact you from the Social Security Administration informing you that your Social Security number (SSN) has been suspended, in hopes you will reveal your SSN or pay to have it reactivated.

• COVID-19 Economic Payments scams target Americans' stimulus payments. The Cybersecurity and Infrastructure Security Agency urges all Americans to be on the lookout for criminal fraud related to COVID-19 economic impact payments—particularly fraud using coronavirus lures to steal personal and financial information, as well as the economic impact payments themselves—and for adversaries seeking to disrupt payment efforts.

**Protect yourself from Online Fraud**

Stay Protected While Connected: The bottom line is that whenever you're online, you're vulnerable. If devices on your network are compromised for any reason, or if hackers break through an encrypted firewall, someone could be eavesdropping on you—even in your own home on encrypted Wi-Fi.

• Practice safe web surfing wherever you are by checking for the "green lock" or padlock icon in your browser bar—this signifies a secure connection.

• When you find yourself out in the great "wild Wi-Fi West," avoid free Internet access with no encryption.

• If you do use an unsecured public access point, practice good Internet hygiene by avoiding sensitive activities (e.g., banking) that require passwords or credit cards. Your personal hotspot is often a safer alternative to free Wi-Fi.

• Don't reveal personally identifiable information such as your bank account number, SSN, or date of birth to unknown sources.

• Type website URLs directly into the address bar instead of clicking on links or cutting and pasting from the email.

**Resources available to you**

If you discover that you have become a victim of cybercrime, immediately notify authorities to file a complaint. Keep and record all evidence of the incident and its suspected source. The list below outlines the government organizations that you can file a complaint with if you are a victim of cybercrime.

• FTC.gov: The FTC's free, one-stop resource, https://www.identitytheft.gov/can help you report and recover from identity theft. Report fraud to the FTC at ftc.gov/OnGuardOnline or https://www.ftccomplaintassistant.gov.

• US-CERT.gov: Report computer or network vulnerabilities to US-CERT via the hotline: 1-888-282-0870 or www.us-cert.gov. Forward phishing emails or websites to US-CERT at phishing-report@us-cert.gov.

• IC3.gov: If you are a victim of online crime, file a complaint with the Internet Crime Complaint Center (IC3) at http://www.IC3.gov.

• SSA.gov: If you believe someone is using your SSN, contact the Social Security Administration's fraud hotline at 1-800-269-0271.

**BRAVO ZULU!**
**Maricela Luis-Leyva**
Senior Civilian of the Quarter,
2nd Quarter, 2020.

**CORPUS CHRISTI, Texas** Marine 1st Lt. John Kenyon, top, and Marine 1st Lt. Matthew Lorber, student naval aviators assigned to the "Boomers" of Training Squadron (VT) 27, conduct a formation flight in T-6B Texan II aircraft above the Corpus Christi area, Oct. 23. VT-27, based at Naval Air Station Corpus Christi, conducts undergraduate primary flight training for the Navy, Marine Corps, Coast Guard and select international military partners. *U.S. Navy photo by Lt. Michelle Tucker.*

# N7/Training News

**Mission:** To plan, analyze, design, implement, evaluate, and maintain the training that safely delivers the world's finest combat-quality aviation professionals.


## From the ACOS

Howdy once again from deep inside the Training Bunker at Hangar 42 aboard sparkling NAS Corpus Christi (the Jewel of Flour Bluff, Texas). In this month's Communicator/ Training Beat, your Human Performance Team submitted a great overview on our instructional design system (specifically the TIP), which describes the cyclic/necessary process of continual improvement to our training system (good to know since TRAINING is our core mission). Key to training is the study of how we humans "program our memory banks." Your two N7 doctors have pieced together an easy-to-read summary of how that happens. I submit you will be able to relate to your own experiences as well as translate some of these principles directly to your task-at-hand.

Next is a visual depiction on where pilot training pipelines are NOW, and where we are going - the near term Vision. Uncle Bug's "Truth Bomb Yardstick" and challenge to you: I assert that, before 2025, we can and WILL produce a more competent CAT I Strike-Fighter pilot in 18 months or less, who is ready to begin an advanced FRS focused on NATOPS qualifications and high-end tactics (Air-Air & Air-Ground). This will require some "unlearning" and encouragement of forward thinkers by our team and those that surround us. I am proud to report your N7 team is dialed-in with some impressive forward-thinkers both in and outside of the lifelines. To quote Coach O of the LSU Tigers before last year's NCAA Playoff game, "We commin.' … We commin' an' we ain't backin' down."

Speaking of "Ain't backin' down," this issue also notes some of our superstar personnel. Uncle Kerry is in the spotlight. We recognize a new Navy COMMANDER rocking the "scrambled eggs" in the PTO shop, and highlight service longevity milestones of some GREAT Americans!

Finally, I am pleased to announce the N7 ACOS UPGRADE for the team. CAPT Kevin "FDR" Delano (TRAWING FOUR Emeritus and current CNATRA N5) will be stepping in the stirrups and taking hold of the bridle to drive this training operation to "Level Five Ass-Kickery." He is an accomplished senior officer, a leader, a thinker, and (most importantly) an impressive husband and father. I fully expect a sum total reduction of two-three syllable words in departmental vernacular as well as a measurable upward spike in the collective IQ. I urge you to engage with him, challenge him when you know you are right, and continue to present him with opportunities to support your efforts and knock down barriers. I can assure everyone that the N7 team is in VERY good hands. I will certainly be cheering for each of you from my cheap seats in College Station as I shift focus to the small family I remain blessed with and seek my repose. If you enjoy brisket and Dr Pepper, do not be a stranger! bug@hnatt.com

Semper Fortis and Semper Fidelis.
Bug out.


*Fair winds and following seas, Shipmate! We'll miss your technical expertise, incredible positivity, and most of all, your friendship.*

# N7/Instructional Systems Design in the NATRACOM

## Training Improvement Program (TIP)

The CNATRA Training Improvement Program (TIP ) provides a process for improving and standardizing training curricula and the associated training courseware to ensure CNATRA produces the finest combat capable aviators that meet fleet requirements. For this issue we want to discuss the relationship of the TIP Manual to other instructions and directives.

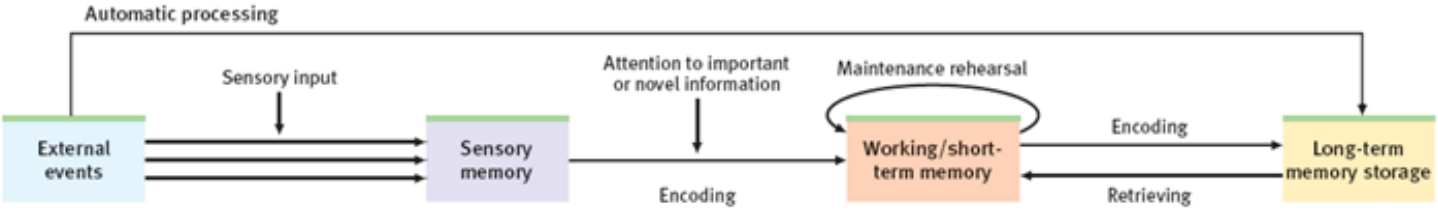
The Training Improvement Process: Issues which involve a change to curriculum or courseware require submission of a Training Change Request (TCR). The TCR Tracker system provides NATRACOM with the means to formally approve the TCR, prioritize the work, and track its completion and implementation. All TCRs will undergo administrative review and approval by N7 before incorporation. Minor revisions to curricula in which resource requirements are not changed are usually incorporated with a change transmittal. Revisions involving changes to resources are implemented via an interim change or a new version of the instruction. Table 1 includes a listing of the different items that can modified through the use of a TCR.

| Product | Notes |
|---|---|
| Computer Aided Instruction (CAI) Interactive Courseware (ICW) | Student-run computer lesson. May include questions and answers. Includes TIMS/TSHARP testing and integration problems. |
| Mediated Interactive Lecture (MIL) | Instructor-led computer lesson. Includes TIMS/TSHARP testing and integration problems. |
| Instructor Guide (IG) | Computer-based lesson notes that accompany a MIL. |
| | Submit this product when a change affects both the MIL and IG. |
| Master Curriculum Guide (MCG) | Changes to the published MCG. May require additional TCRs for related products. |
| Flight Training Instruction (FTI), Particular to Aviation Training (PAT) Publication | Proposed changes to the published FTI as well as revisions. |
| Examination (EXAM) | Stand-alone graded online or written exam. Does not include intermediate Q&A during a CAI or MIL lesson. |
| Training Integration Management System (TIMS) | Non-courseware changes to TIMS syllabi, including changes to prerequisites, grade sheets, event resource requirements, qualifications, etc. |
| Lesson Guide or Workbook | Paper products. |
| Poster Graphic | Large scale graphics not part of another product. |

*Table 1: Training Change Request (TCR) Products*

TCR Initiation. TCRs may be generated in two ways: directly into the TCR Tracker system or via the web. Direct entry is reserved for those with direct access to the TCR Tracker System (SMs, CCs, PTOs). All others shall use the web-based TCR input process outlined in paragraph 304. The TCR Tracker database provides NATRACOM with the means to formally approve the TCR, prioritize the work, and track its completion and implementation. Squadron and TRAWING Training/ Standardization Officers, CCs, SMs, and PTOs are responsible for tracking submitted TCRs and ensuring the information is accurately entered into the TCR Tracker. All TIP team personnel have a TCR Tracker account. Additionally, all leaders are encouraged to have an account to maintain visibility on TCRs in their phase of training. The Ground Training Officers (GTO) are responsible for ensuring all personnel (instructors, students, CSIs etc.) are trained on how to submit requests for changes.

# Fundamentals of Learning: Types of Memory




**Sensory Memory:** allows individuals to retain impressions of sensory information after the original stimulus has ceased. One of the most common examples of sensory memory is fast-moving lights in darkness: if you've ever lit a sparkler on the Fourth of July or watched traffic rush by at night, the light appears to leave a trail. This is because of "iconic memory," the visual sensory store. Two other types of sensory memory have been extensively studied: echoic memory (the auditory sensory store) and haptic memory (the tactile sensory store). Sensory memory is not involved in higher cognitive functions like short- and long-term memory; it is not consciously of Memory controlled. The role of sensory memory is to provide a detailed representation of our entire sensory experience for which relevant pieces of information are extracted by short-term memory and processed by working memory.

Sensory memory allows individuals to retain impressions of sensory information for a brief time after the original stimulus has ceased. It allows individuals to remember great sensory detail about a complex stimulus immediately following its presentation. Sensory memory is an automatic response considered to be outside of cognitive control. The information represented in this type of memory is the "raw data" which provides a snapshot of a person's overall sensory experience. Information from sensory memory has the shortest retention time, ranging from mere milliseconds to five seconds. It is retained just long enough for it to be transferred to short-term (working) memory. In sensory memory, no manipulation of the incoming information occurs as it is transferred quickly to working memory. The amount of information is greatly reduced during this transfer because the capacity of working memory is not large enough to cope with all the input coming from our sense organs.

### Types of Sensory Memory

It is assumed that there is a subtype of sensory memory for each of the five major senses (touch, taste, sight, hearing, and smell); however, only three of these types have been extensively studied: echoic memory, iconic memory, and haptic memory.

### Iconic Memory

Sensory input to the visual system goes into iconic memory, so named because the mental representations of visual stimuli are referred to as icons. Iconic memory has a duration of about 100 ms. One of the times that iconic memory is noticeable is when we see "light trails." This is the phenomenon when bright lights move rapidly at night and you perceive them as forming a trail; this is the image that is represented in iconic memory.

### Echoic Memory

Echoic memory is the branch of sensory memory used by the auditory system. Echoic memory is capable of holding a large amount of auditory information, but only for 3–4 seconds. This echoic sound is replayed in the mind for this brief amount of time immediately after the presentation of the auditory stimulus.

### Haptic Memory

Haptic memory is the branch of sensory memory used by the sense of touch. Sensory receptors all over the body detect sensations like pressure, itching, and pain, which are briefly held in haptic memory before vanishing or being transported to short-term memory. This type of memory seems to be used when assessing the necessary forces for gripping and interacting with familiar objects. Haptic memory seems to decay after about two seconds. Evidence of haptic memory has only recently been identified and not as much is known about its characteristics compared to iconic memory.

**Short-term Memory:** holds only a few items (research shows a range of 7 +/- 2 items) and only lasts for about 20 seconds. However, items can be moved from short-term memory to long-term memory via processes like rehearsal. An example of rehearsal is when someone gives you a phone number verbally and you say it to yourself repeatedly until you can write it down. If someone interrupts your rehearsal by asking a question, you can easily forget the number, since it is only being held in your short-term memory.

Short-term memory is the capacity for holding a small amount of information in an active, readily available state for a brief period of time. It is separate from our long-term memory, where lots of information is stored for us to recall at a later time. Unlike sensory memory, it is capable of temporary storage. How long this storage lasts depends on conscious effort from the individual; without rehearsal or active maintenance, the duration of short-term memory is believed to be on the order of seconds.

**Capacity of Short-Term Memory**

Short-term memory acts as a scratchpad for temporary recall of information. For instance, in order to understand this sentence you need to hold in your mind the beginning of the sentence as you read the rest. Short-term memory decays rapidly and has a limited capacity. The psychologist George Miller suggested that human short-term memory has a forward memory span of approximately seven items plus or minus two. More recent research has shown that this number is roughly accurate for college students recalling lists of digits, but memory span varies widely with populations tested and with material used.

For example, the ability to recall words in order depends on a number of characteristics of these words: fewer words can be recalled when the words have longer spoken duration (this is known as the word-length effect) or when their speech sounds are similar to each other (this is called the phonological similarity effect). More words can be recalled when the words are highly familiar or occur frequently in the language. Chunking of information can also lead to an increase in short-term memory capacity. For example, it is easier to remember a hyphenated phone number than a single long number because it is broken into three chunks instead of existing as ten digits.

Rehearsal is the process in which information is kept in short-term memory by mentally repeating it. When the information is repeated each time, that information is re-entered into the short-term memory, thus keeping that information for another 10 to 20 seconds, the average storage time for short-term memory. Distractions from rehearsal often cause disturbances in short-term memory retention. This accounts for the desire to complete a task held in short-term memory as soon as possible.

**Pioneers in Educational Psychology**

**Robert Mills Gagné** (August 21, 1916 – April 28, 2002) was an American Educational Psychologist best known for his Conditions of Learning. He pioneered the science of instruction during World War II when he worked with the Army Air Corps training pilots. He went on to develop a series of studies and works that simplified and explained what he and others believed to be "good instruction." Gagné was also involved in applying concepts of instructional theory to the design of computer-based training and multimedia-based learning

Gagné's theory stipulates that there are several types and levels of learning, and each of these types and levels requires instruction that is tailored to meet the needs of the pupil. While Gagne's learning blueprint can cover all aspects of learning, the focus of the theory is on the retention and honing of intellectual skills. The theory has been applied to the design of instruction in all fields, though in its original formulation special attention was given to military training settings.1

*1 Wikipedia contributors. "Robert M. Gagné." Wikipedia, The Free Encyclopedia. Wikipedia, The Free Encyclopedia, 14 Sep. 2020. Web. 15 Oct. 2020*

## N7 Team Spotlight


**BRAVO ZULU** and many thanks to our N7 Courseware Author Kerry Honore. He has been an integral part of our team, performing technical monitoring reviews for the transition of courseware lesson/exams from Adobe Authorware to the new platform of Adobe Captivate for all CNATRA training wings. And now, for the newest HTML courseware being developed for T-SHARP. Kerry has been heavily involved in all of our MWR and team building events. He is one that makes CNATRA a better place to work. Kerry, thank you for all you do!

**BRAVO ZULU** to Cmdr. Kevin "Shrek" Friel on his promotion!

# Training Vision

CNATRA Pilot training as is…

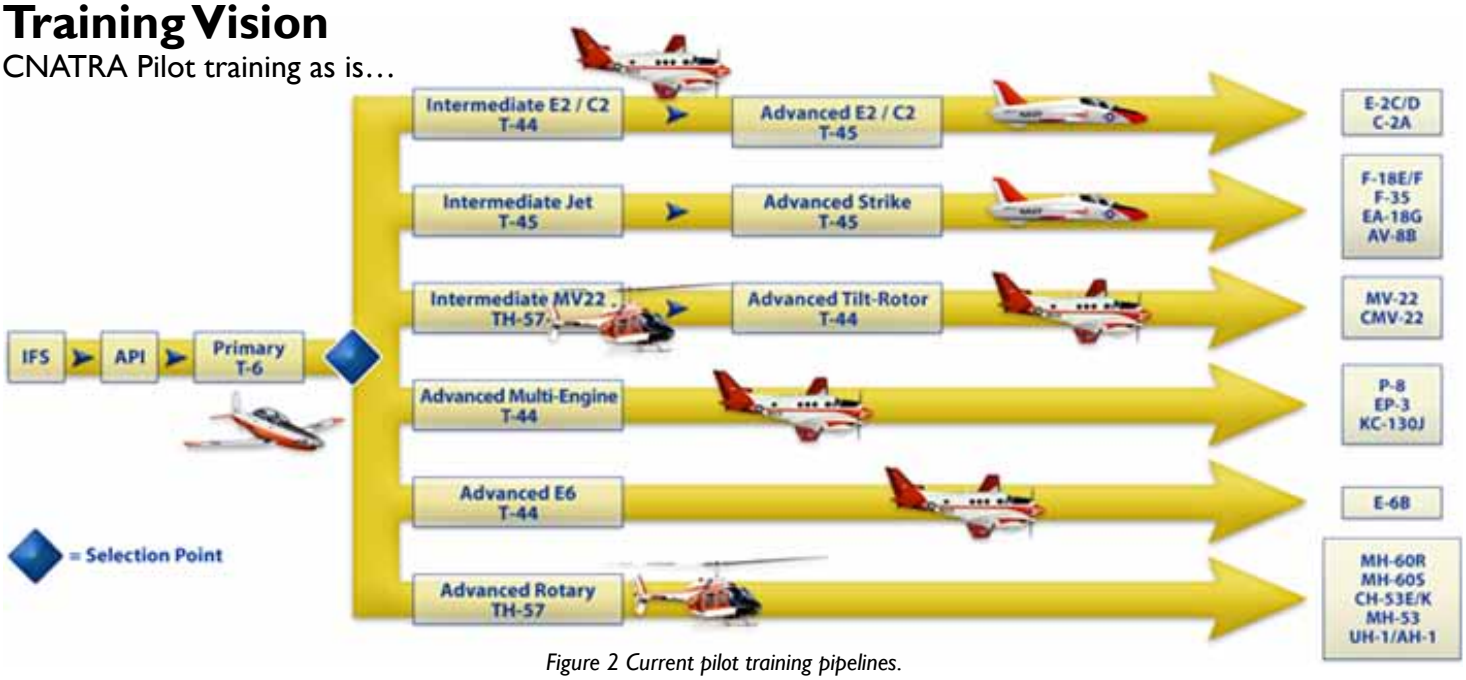



*Figure 2 Current pilot training pipelines.*

Figure 2 is CNATRA Pilot training to be…. Notice that IFS has been replaced by NIFE, Pipeline Selection in Primary happens earlier, and we are developing a selection point in the Strike pipeline for F/A 18, E/A 18, and F-35s. The new selection points will happen earlier in training allowing for more tailored platform training. Tailored platform training eliminates unnecessary overtraining, decrease the instructor and aircraft requirements, and time-to-train is reduced. Features of the new style of training will include…

1. Student-centric, immersive learning in a detachment structure that leverages new technology
   - 24/7 on demand access to training resources
   - Train in the most effective and efficient domain
   - Tailored remediation
2. Progression based on competence, not timeline
   - Focus on airmanship as a whole
   - Push advanced learning left
3. Additional desired outcomes:
   - Reduce street-to-fleet time to train and cost:
   - Identify milestones for advanced pipeline selection off-ramps earlier

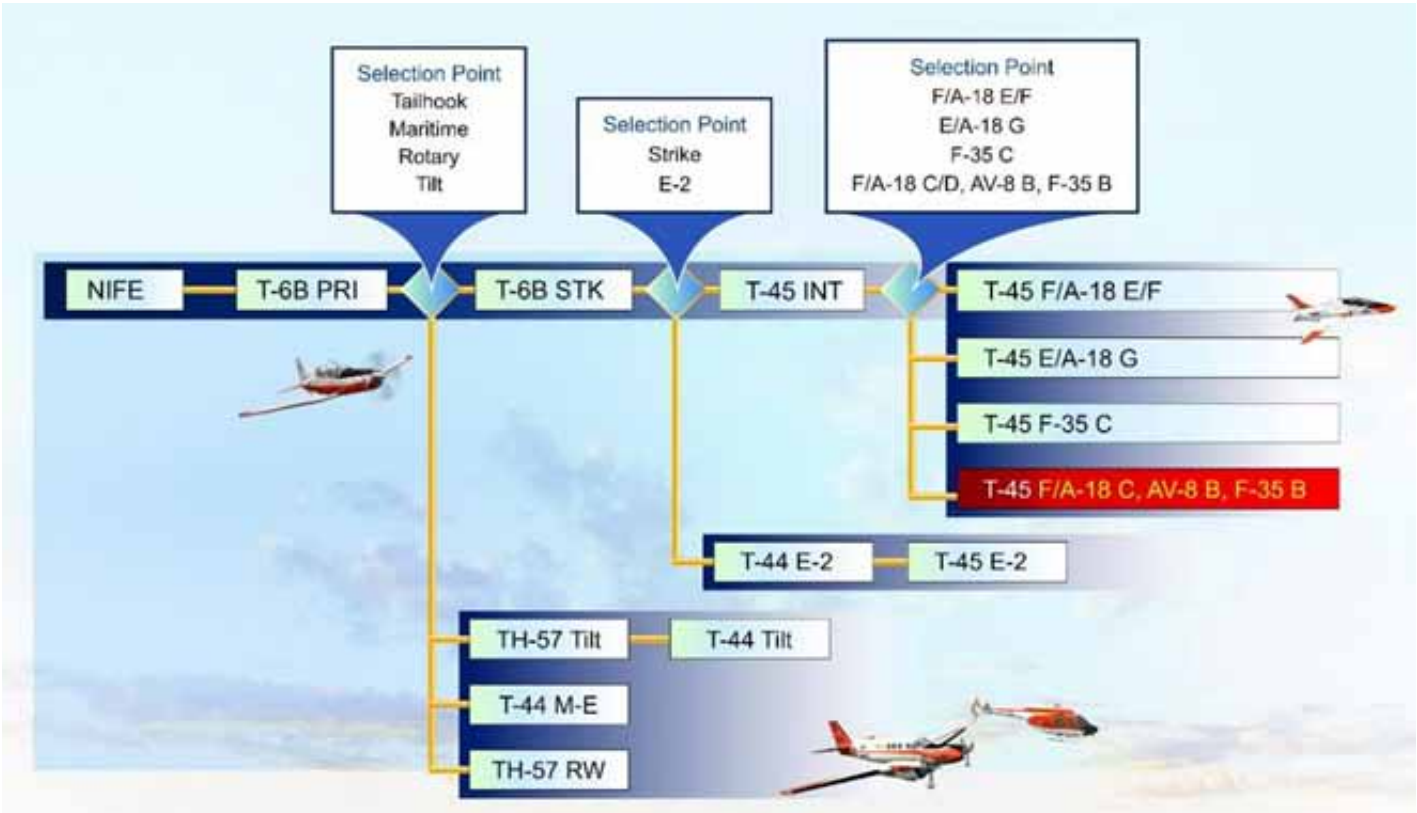



*Figure 2 Future pilot training pipelines.*

# N4/LONGEVITY AWARDS

Congratulations to the following members on receiving their longevity pin for Government Service.

Dr. Thomas Sheppard, 45 yrs

William Brown, 30 yrs

Patty Murphy, 10 yrs

Kelly Duque, TW-1, 10 yrs

Lisbet Garza, TW-2, 10 yrs

Rose Mesmer, TW-2, 10 yrs

Erika Ortega, TW-2, 5 yrs

Richard Wesley, TW-1, 30 yrs


**PENSACOLA, Fla.** The U.S. Navy Flight Demonstration Squadron, the Blue Angels, conducted a final combined flight with the F/A-18 Hornet and the new F/A-18 Super Hornet, Nov. 3, in preparation for the transition to the Super Hornet. The Blue Angels are officially transitioning to the Super Hornet for the 75th anniversary and 2021 show season. U.S. Navy photo by Mass Communication Specialist 2nd Class Christopher Gordon.

# IN MEMORIUM

*We honor our fallen Shipmates Navy Lieutenant Rhiannon Ross and Coast Guard Ensign Morgan Garrett who lost thier lives Oct. 23 in Foley, Alabama.*

*Rest in Peace, Shipmates, we have the watch.*

LT Rhiannon Ross


ENS Morgan Garrett