

Marine Corps Aviation



February 2016

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Our Mission

The Marine Corps has been America's expeditionary force in readiness since 1775. We are forward deployed to respond swiftly and aggressively in times of crisis. We are soldiers of the sea, providing forces and detachments to naval ships and shore operations. We are global leaders, developing expeditionary doctrine and innovations that set the example, and leading other countries' forces and agencies in multinational military operations. These unique capabilities make us "First to Fight," and our nation's first line of defense.



Marine Aviation



Aviation Functions

❑ Marine Corps aircraft perform six essential functions:

- ❑ Offensive Air Support
- ❑ Anti-Aircraft Warfare
- ❑ Assault Support
- ❑ Command and Control
- ❑ Air Reconnaissance
- ❑ Electronic Warfare.



❑ Fixed-wing, rotary-wing, tilt-rotor, and unmanned aircraft equip Marines with the capability to engage on any terrain on earth.

Video



MARINE CORPS AIRCRAFT

The MAGTF

- ❑ Marine Air Ground Task Force (MAGTF)
- ❑ Unique fighting force
- ❑ Combined Arms
- ❑ Fixed Wing and Rotary Wing aviation





F/A 18 Hornet

Able to be quickly configured for fighter or attack missions, the twin-engine, all-weather, day or night Marine jet can be used for fighter escort, enemy air defense suppression, reconnaissance, air control and the calling card of Marine Aviation: close air support.





AV8B Harrier II

22,000 pounds of thrust allow the Harrier II to both hover like a helicopter and blast forward like a jet at near-supersonic speeds. With the ability to attack anywhere, the Harrier forces the enemy to defend everywhere.





EA6B Prowler

The Marine Prowler's ability to detect, sort, classify, jam and destroy air defenses leaves the enemy with two options: leave the radar on, or turn it off. Either way, their defenses are reduced to expensive but useless metal.





F-35 Joint Strike Fighter

The Joint Strike Fighters (JSF's) next generation stealth, superb situational awareness and reduced vulnerability will make the F-35 hard to find, hard to hit and hard to kill.





KC-130J Super Hercules

The KC-130J Super Hercules is a four-engine transport aircraft used for aerial refueling, medical evacuation, combat-assault transport and battlefield illumination.





AH-1Z Cobra

No aircraft defines the role of close air support better than the Marine AH-1Z Viper. Whether it's providing cover for advancing ground forces or escorting assault support helicopters enroute to a landing zone, the AH-1Z is called on when Marines need firepower from the air.





UH-1 N/Y Venom

A case study in Offensive Air Support, Assault Support, Command and Control and Aerial Reconnaissance, the UH-1Y Venom utility helicopter of choice is truly a microcosm of Marine Aviation.





CH-53E Super Stallion

The heavy-lift helicopter of the Marine Corps can carry a 26,000-pound Light Armored Vehicle, 16 tons of cargo 50 miles and back, or enough combat-loaded Marines to lead an assault or humanitarian operation.





MV-22B Osprey

With the speed and range of a turboprop, the maneuverability of a helicopter and the ability to carry 24 Marines twice as fast and five times farther than previous helicopters, the Osprey greatly enhances the advantages Marines have over their enemies.





Marine One

Marine One is the call sign of any United States Marine Corps aircraft carrying the President of the United States.

It usually denotes a helicopter operated by Marine Helicopter Squadron One (HMX-1 "Nighthawks"), either the large VH-3D Sea King or the newer, smaller VH-60N "WhiteHawk". A Marine Corps aircraft carrying the Vice President has the call sign Marine Two.



TRAINING

- ❑ Being designated a Marine Naval Aviator (takes about two years altogether) encompasses multiple aviation qualifications which can be granted by the FAA through written examinations.
- ❑ **Designated Helicopter Pilots:**
 - ❑ Commercial Pilot's License, Fixed wing – single engine
 - ❑ Commercial Pilot's License, Helicopter
 - ❑ Standard Instrument Rating
- ❑ **Designated Jet Pilot:**
 - ❑ Commercial Pilot's License, Fixed wing – single engine
 - ❑ Standard Instrument Rating
- ❑ **Designated Turbo-prop Pilot:**
 - ❑ Commercial Pilot's License, Fixed wing – single engine
 - ❑ Commercial Pilot's License, Fixed wing – multi-engine
 - ❑ Standard Instrument Rating
- ❑ **Designated Tilt rotor Pilot:**
 - ❑ Commercial Pilot's License, Fixed wing – single engine
 - ❑ Commercial Pilot's License, Fixed wing – multi-engine
 - ❑ Commercial Pilot's License, Helicopter
 - ❑ Standard Instrument Rating

TRAINING COST

- ❑ Civilians earning their private pilot's license typically take between 3 to 12 months, based on their hours to train, weather, and financial considerations, to complete their training.
- ❑ Depending on the quality of flight school a person attends, the financial commitment can be staggering.

| ❑ Minimum Requirements | # of Hours | Costs \$ |
|-------------------------------------|-------------------|--------------------------------|
| ❑ Dual Hours | 30 | 7,020 |
| ❑ Solo Hours | 10 | 1,950 Ground Instruction |
| ❑ 585 Pre / Post Flight Briefing | 10 | 390 Written Test |
| ❑ 70 Practical Test Aircraft Rental | 1.5 | 293 Check ride Examiner Fee |
| ❑ 350 Flight Physical | | 65 Books / Basic Equipment 200 |
| ❑ Total | 41.4 HOURS | \$10,923 |

- ❑ These costs, quoted from an online vendor, is consider the average. Additional costs to obtain the same ratings as a winged Naval Aviator vary but are generally consistent with the following,

- ❑ Private Pilot's License: \$15,300
- ❑ Standard Instrument Rating: \$18,200
- ❑ Commercial / Complex: \$9500
- ❑ Commercial Certification: \$9500
- ❑ Multi-engine Rating: \$5,000
- ❑ Helicopter License: \$9,000

= \$66,500

IT'S ALL FREE!

UNITED STATES MARINE CORPS

1ST YEAR

USMC

- Hours: 100
- Salary: \$2,470/month
Flight pay: \$125/month
Basic Allowance for Housing (BAH):
\$1095/month (Pensacola, FL)

TOTAL INCOME: \$44,280

CIVILIAN

- Private Pilot's Certificate -55 +
flights and 20+ ground hours

TOTAL COST = \$15,300

2ND YEAR

- Hours: 215
- Salary: \$2570/month
Flight Pay: \$125/month
BAH: \$1157/month (Pensacola, FL)

TOTAL INCOME: \$46,224

- Instrument Pilot Certification 40+
flights and 20+ ground hours - \$18,200
- Commercial Certification 20+ flights
and 23+ ground hours - \$19,000
- Multiengine Rating: \$5,000
- Helicopter License: \$9,000

TOTAL COST: \$51,200

TOTAL INCOME
\$90,504

TOTAL COST
\$66,500

UNITED STATES MARINE CORPS

AVIATION PIPELINE

- IFS/API
- NAS PENSACOLA, FL
- 7 wks / 6 wks

PRIMARY
NAS CORPUS CHRISTI
CORPUS CHRISTI, TX
6 months

PRIMARY
NAS WHITING FIELD
MILTON, FL
6 months

**MARITIME
(C-130s)
ADVANCED**
CORPUS CHRISTI, TX
5 months
APPROX TTT: 1.5 years

**STRIKE (JETS)
ADVANCED**
MERIDIAN, MS
KINGSVILLE, TX
9-12 months
APPROX TTT: 2 years

**ROTARY
(HELOS)
ADVANCED**
MILTON, FL
7 months
APPROX TTT: 1.5 year

**TILT ROTOR
(V-22s)
INTERMEDIATE**
MILTON, FL
2.5 months

**TILT ROTOR
(V-22s)
ADVANCED**
CORPUS CHRISTI, TX
5 months
APPROX TTT: 2 year



Aircraft Selection
KC-130J



Aircraft Selection
F/A-18, AV-8,
EA-6
F-35 (2015)



Aircraft Selection
CH-53E, AH-1W/Z,
UH-1N/Y



Aircraft Selection
MV-22

FLEET REPLACEMENT SQUADRON
ADDITIONAL 6-12 months of training in fleet aircraft

Aviation Platform Pipeline Selection

Based on:

- 1) Grades
- 2) Needs of the Marine Corps
- 3) Personal Preference

Selection breakdown:

| | |
|-------------|------|
| Jets: | 20 % |
| C-130's: | 12 % |
| Helos: | 49 % |
| Tilt Rotor: | 19 % |

Aviation Platform Pipeline Selection

Based on:

- 1) Grades
- 2) Needs of the Marine Corps
- 3) Personal Preference

Selection breakdown for jets:

| | |
|-----------|------|
| Hornets: | 55 % |
| Harriers: | 34 % |
| Prowlers: | 11 % |
| JSF: | TBD |

Selection breakdown for helos:

| | |
|---------|------|
| Cobras: | 39 % |
| Hueys: | 24 % |
| CH-53: | 37 % |

Training Aircraft (SNA)

Primary



T-6 Texan II
NAS Whiting Field, FL
NAS Corpus Christi, TX

Training Aircraft (SNA)

Advanced - Maritime



T-44C Pegasus
NAS Corpus Christi, TX

Training Aircraft (SNA)

Intermediate / Advanced - Strike



T-45C Goshawk

NAS Kingsville, TX or NAS Meridian, MS

Training Aircraft (SNA)

Advanced – Helo



TH-57B/C Sea Ranger
NAS Whiting Field
Milton, FL

Training Aircraft (SNA)

Intermediate / Advanced – Tilt-Rotor



TC-12 Huron
NAS Corpus Christi, TX



TH-57B/C Sea Ranger
NAS Whiting Field
Milton, FL

Naval Flight Officer (NFO) Pipeline

- **API**
- **NAS PENSACOLA, FL**
- **6 weeks**

IFS
PENSACOLA, FL
7 weeks

PRIMARY
NAS PENSACOLA, FL
4 months

NFO INTERMEDIATE
NAS PENSACOLA, FL
3 months

NFO ADVANCED
NAS PENSACOLA, FL
Strike: 4 months
WSO (F18): Fighter track
5 months
ECMO (EA-6B): ATM
3 months
APPROX TTT: 1-1.5 years

Selection breakdown for NFOs:

Hornets

(Weapons Systems Officer): 56 %

Prowlers

(Electronic Counter Measures Officer): 44 %



Training Aircraft (SNFO)

Primary / Intermediate



T-6A Texan II

Training Aircraft (SNFO)

Strike/Fighter/ATM



T-6 Texan II
NAS Whiting Field, FL
NAS Corpus Christi, TX



T-45C Goshawk

Duty Stations



OKINAWA JAPAN

AH-1W/Z (UDP)
UH-1N/Y (UDP)
CH-53E
MV-22
KC-130J

IWAKUNI JAPAN

F/A-18D (Perm)
F/A-18C/D (UDP)
EA-6B (UDP)
AV-8B (UDP)



CHERRY POINT, NC

AV-8B
KC-130J
EA-6B
CH-53E
AH-1W/Z
UH-1N/Y
F-35B/C (20XX)

NEW RIVER, NC

AH-1W
UH-1N/Y
MV-22
CH-53E

BEAUFORT, SC

F/A-18C/D
F-35B/C (2016)

HAWAII

CH-53E
MV-22
AH-1W/Z
UH-1N/Y

YUMA, AZ

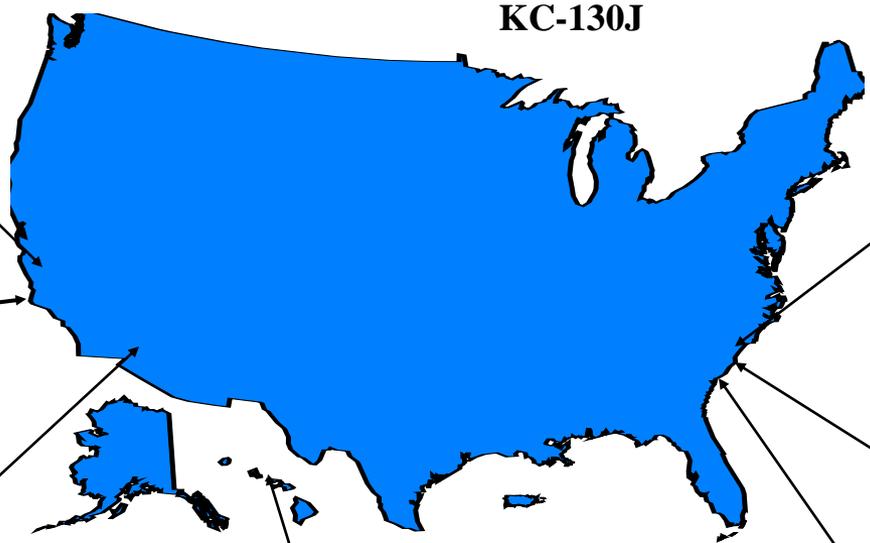
AV-8B
F-35B

MIRAMAR, CA

F/A-18C/D
MV-22
CH-53E
KC-130J

CAMP PENDLETON, CA

AH-1W/Z
UH-1Y



CAREER PATH

Career Path

- After Wings (1stLt)
 - Your 6 year contract begins
 - Fleet Replacement Squadron training
- First Fleet Squadron (Capt)
 - 3 years
 - At least one deployment
- B-Billet (Capt)
 - 1-3 years
 - FAC (1), Flight Instructor (3), School (1)
 - Fleet Squadron (Major)
 - 2-3 years
 - Department Head (XO, OPSO, AMO)

Your Path

- ❑ College Freshman
 - ❑ NROTC or Platoon Leaders Class (PLC) Air program Selection
 - ❑ PLC 6 weeks Officer Candidate School (OCS) (Challenge/Fitness/Decent Pay)
 - ❑ Guaranteed Flight School (remain qualified)
- ❑ Sophomore Year (Once trained)
 - ❑ Preparation
 - ❑ Financial Assistance (Money for school)
- ❑ Junior Year
 - ❑ Financial Assistance
 - ❑ NROTC 6 weeks Officer Candidate School (OCS) (Challenge/Fitness/Decent Pay)
- ❑ Senior Year (Fully Trained)
 - ❑ Financial Assistance
 - ❑ Your peers will be going to job fairs
 - ❑ Graduate and Commission as a 2ndLt
 - ❑ Report to TBS



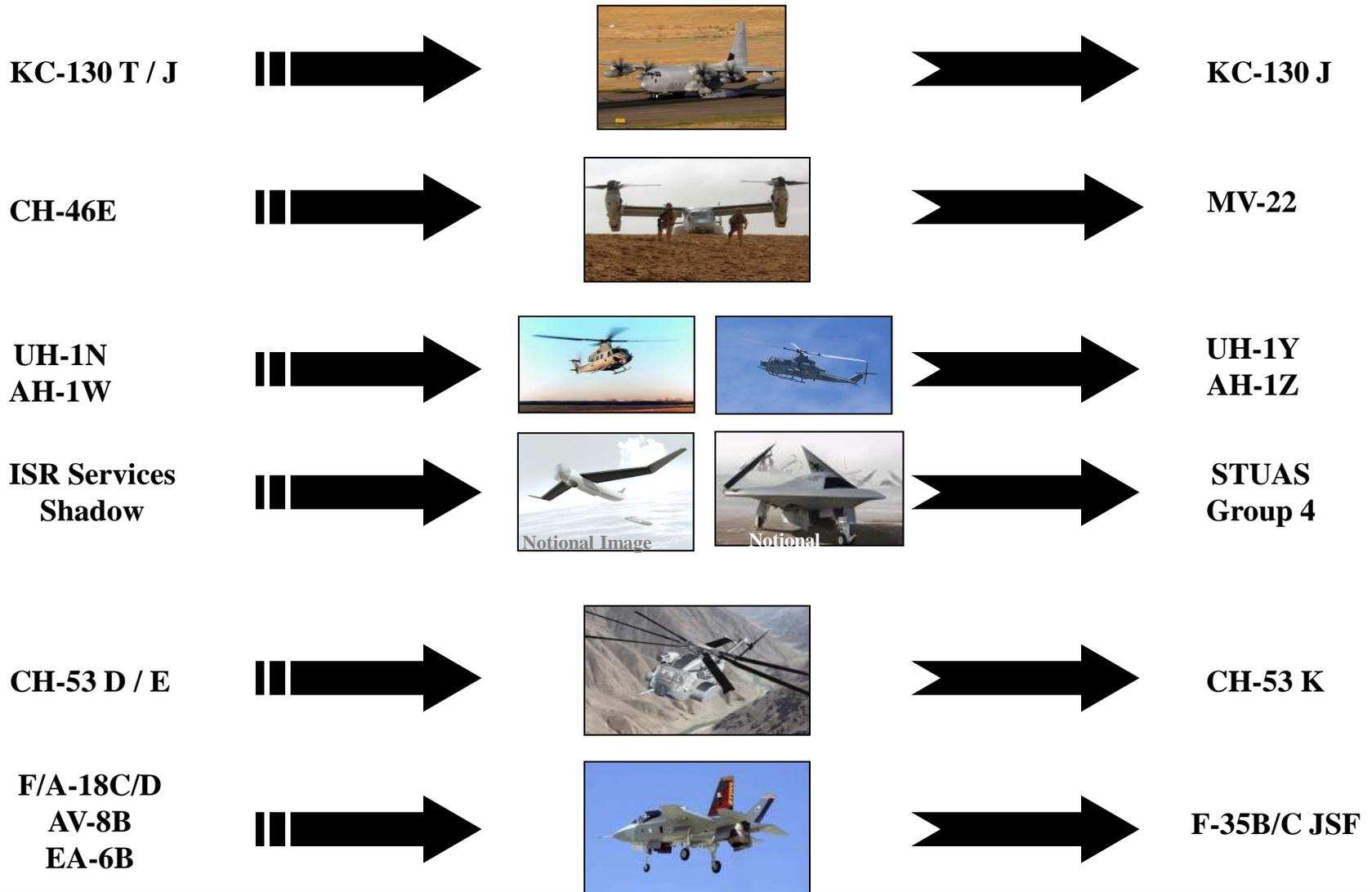
Marine Corps Benefits

- Travel and Adventure
- Self Reliance/Discipline, Responsibility
- Leadership/Management Training and Experience
- No Obligation until Graduation
- Pride and Honor of a Marine Commission
- Professional Development and Personal Growth
- Financial Security, Advancements and Benefits
- Challenge
- Tuition Assistance
- Patriotism
- Career Variety
- Physical Fitness
- Equal Opportunity
- Post Graduate Education
- AVIATION GUARANTEE

QUESTIONS?

Backup Slides

Marine Aviation Transition



Marine Corps Aviation



- **KC-130J transition continues through 2010. KC-130J detachments currently supporting OEF. FRS training moved from Little Rock to Cherry Point & Miramar.**



- **VXX replacing VH-3D & VH-60N. Initial Operational Capability FY2011. Full Operational Capability FY2019.**



- **F-35B (JSF STOVL variant) and F-35C (carrier variant) replacing F/A-18C/D, AV-8B & EA-6B. FRS stand-up April 2010. Initial Operational Capability 2015.**



- **CH-53K contract awarded April 2006. 1st flight 2014. Initial Operational Capability TBD.**

Marine Corps Aviation



- MV-22 replacing CH-46E. First operational deployment Oct 2007.



- UH-1Y replacing “N’s”. FRS training underway. Initial Operational Capability Aug 2008. First Yankee MEU deployment 2Q 2009.

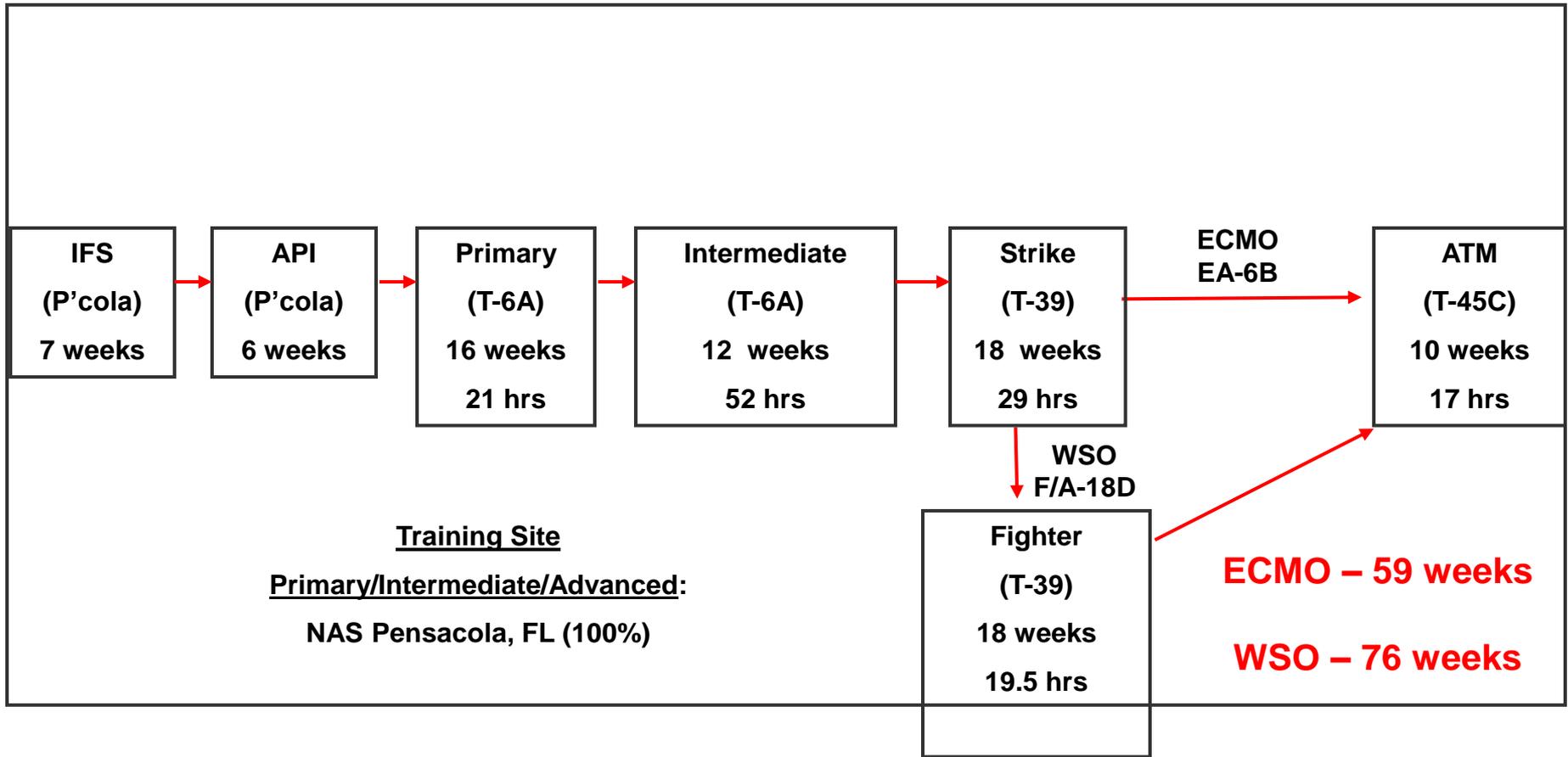


- AH-1Z replacing “W’s”. FRS training 2Q FY2009. Initial Operational Capability 2Q FY2011.

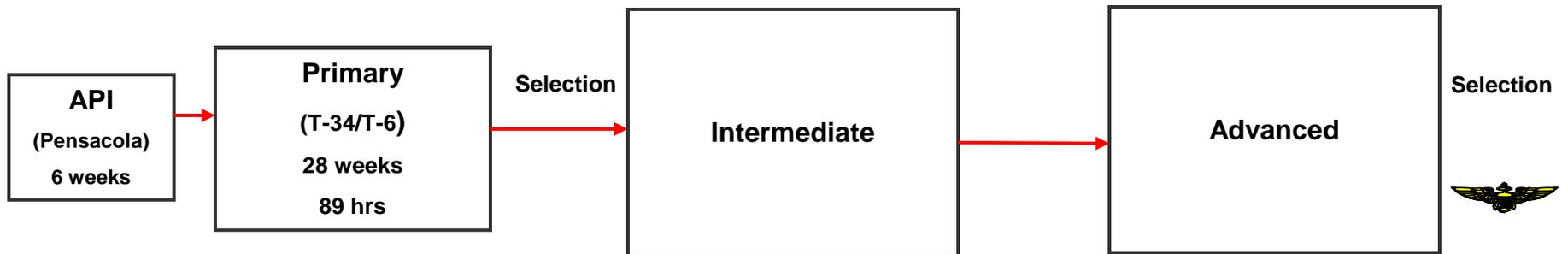


- EA-6B transition to ICAP III. FRS migration from Whidbey in FY2010. Operational capability thru 2019.

Naval Flight Officer (NFO) Pipeline

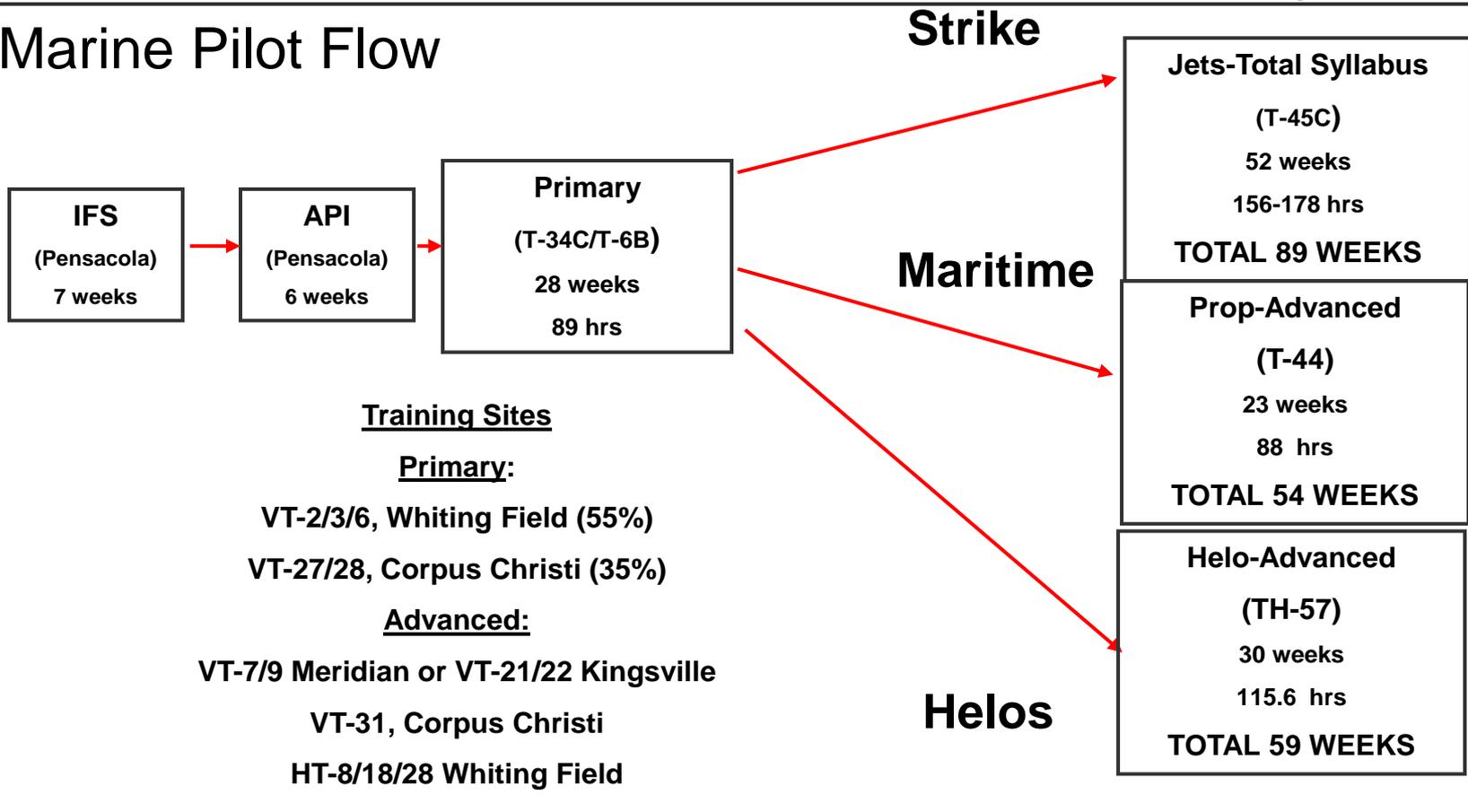


Training Pipeline

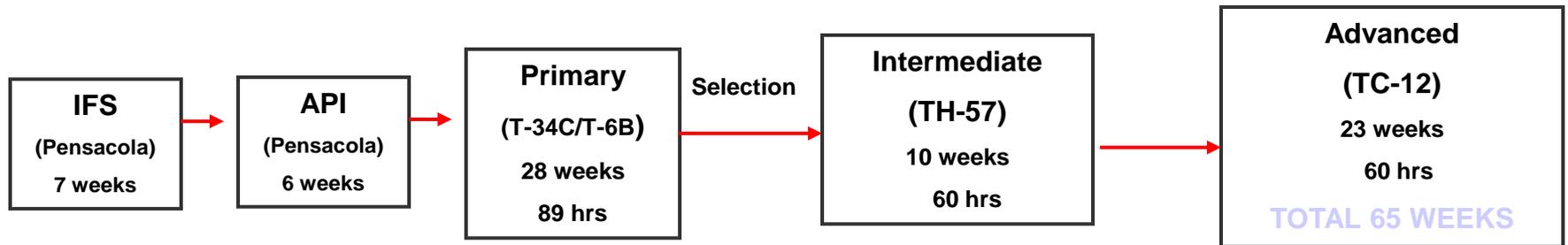


Pilot Pipeline Strike/Maritime/Rotary

Marine Pilot Flow



Pilot Pipeline Tilt-Rotor



Training Sites

Primary:

VT-2/3/6, Whiting Field (55%)

VT-27/28, Corpus Christi (35%)

Intermediate:

HT-8/18/28 Whiting Field

Advanced:

VT-35, Corpus Christi

UNITED STATES MARINE CORPS