

SO...

YOU WANT TO BE A
PILOT

CHOICE: MILITARY OR CIVILIAN



- **Civilian**

- **On your own for costs or scholarship**
- **Attend University or Local Flight School**
- **Build hours as flight instructor**



- **Military**

- **10 year active duty commitment**
- **Choices: ROTC or Military Academy**

A PILOT SHORTAGE IS NOW

- Airlines face worldwide pilot shortage
- Flight Schools losing their Flight Instructors
- Military Pilot Shortage
 - USAF Academy is only training 400/year
 - USAF looking at NCOs to fill pilot slots
- Airlines parked some of their fleets due to lack of pilots
- Airlines offering signing and retention bonuses



PILOT LICENSES & RATINGS

- Student Pilot – Training only
- Sport Pilot – Limited personal flying
- Private Pilot – Personal flying
- Commercial – Fly for hire
- Flight Instructor (CFI/CFII) – Train other pilots
- Airline Transportation Pilot (ATP) – Airline requirement
- Instrument Rating – Fly in the clouds
- Multi-Engine Rating – More than one engine
- Turbine/Type Rating – Higher performance aircraft
- Remote Pilot – Fly drones / UAVs

STUDENT PILOT LICENSE – FIRST STEP

- Allows you to fly solo
- Minimum 16 years old (14 for gliders)
- ✓ Pass FAA Medical Exam (check for limitations!)
- May credit flight instruction before 16
- Flights approved by your flight instructor
- Fly only You OR You and the Flight Instructor
- Path to your Private Pilot License (at 17 years old)

PRIVATE PILOT LICENSE



- ✓ Be 17 years old (16 for gliders)
- ✓ Minimum 40 hours, generally closer to 50-60 hours
 - 20 hours dual (3 x-c, 3 night, 3 instrument)
 - 10 hours solo (5 x-c, 3 take-offs and landings at a control tower)
- ✓ Pass Written Exam (70%) – good for 2 years
- ✓ Pass Practical Flight Test with Examiner
- Allows you to fly passengers

SPORT PILOT LICENSE



- ✓ Be 17 years old (16 for Balloon and Glider)
- ✓ U.S. Driver's License or FAA Medical
- ✓ Minimum 20 hours
 - ✓ 15 Instruction, 5 Solo, 2 x-c, 75 nm Solo Cross Country, 2 Prep for Practical Test, Ground Training
- ✓ Pass Sport Pilot Knowledge Test
- ✓ FAA Practical Flight Test
- Limitations on flying without extra instruction and sign off
- Fly aircraft in new FAA MOSAIC category

MOSAIC (MODERNIZATION OF SPECIAL AIRWORTHINESS CERTIFICATION)

- Expanded types of aircraft available to Sport Pilots
- Aircraft:
 - 4 seats
 - Stall Speed: 59 KCAS no flap, 61 KCAS with flaps
 - No engine, propeller, or weight restrictions
 - 250 knot max speed
 - Fixed or retractable gear
- Pilots:
 - Only Pilot + 1 Passenger
 - Instructor Endorsement and FAA Medical certificate for Night Flying
 - Instructor Endorsement to fly airspace with a Control Tower
 - No Instrument Flight Rule flights, VFR only
 - No commercial or business flying
 - Below 10,000 feet MSL, or 2,000 feet AGL
 - U.S. flying only

MAJOR PILOT ORGANIZATIONS & EVENTS

- AOPA – Aircraft Owner and Pilot Association
 - www.aopa.org
- EAA – Experimental Aircraft Association
 - www.eaa.org
- EAA AirVenture – Oshkosh, WI - July
 - www.airventure.org
- Event Calendars - Local airport fly-ins/car shows
 - www.socialflight.com

YOUNG EAGLES

WWW.YOUNGEAGLES.ORG



- Free flights held at Young Eagles Rallies
- Open to 8-17 years old
- Flown over 2.5 million kids
- Logbook with code for free on-line Ground School
- Membership in American Model Association
- Voucher for free first flight lesson
- FAA written exam fee (\$140) reimbursed if passed
- EAA Flight Scholarships available
- Free student EAA membership until 18
- Free on-line copy of EAA Sport Aviation magazine

AOPA HIGH SCHOOL FREE MEMBERSHIP

WWW.AOPA.ORG/AV8RS/



- Free Youth Membership (13-20 yrs. old)
- Full access to AOPA website
 - AOPA Flight Training Magazine
 - Flight training & planning resources
- Weekly ePilot newsletter
- Webinars / Safety Education / Pilot Info Center
- Flight Scholarship Opportunities



STEM FLIGHTS

WWW.STEMFLIGHTS.ORG



- Connects 6-12th grade students with volunteer Pilot Mentors
- STEM Flights are free
- Students choose one of 4 missions
 - Commercial & General Aviation
 - Climate and Weather & Environmental Science
 - Drones, Physics & Advanced Air Mobility
 - Aerospace Engineering
- Study STEM materials
- Discuss their work with the pilot
- Fly the mission
- Debrief the flight

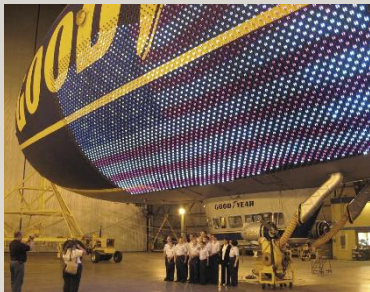


CIVIL AIR PATROL CADET PROGRAM

WWW.JOINCAP.COM



- Leadership and Aviation oriented organization for 12-18
- Opportunities abound:
 - Orientation flights in CAP aircraft
 - Aerospace Education STEM program
 - Aviation and leadership activities
 - Flight Academies and scholarships
 - Yearly encampments at military bases
 - Aviation and military career exploration
 - Numerous aviation and military special activities during the summer



CIVIL AIR PATROL – CADETINVE\$T

WWW.GOCIVILAIRPATROL.COM/PROGRAMS/CADETS/CADETINVEST



Cadet Wings

Assist cadets to obtain Private Pilot License – CAPP 60-43
Merit-based assistance



LIFT

Need-based financial assistance for week-long National Cadet Special Activities (NCSAs)

TOP – Take-Off Program

Need-based financial assistance for week-long National Flight Academies (NFAs)

Scholarships

Flight and NCSA scholarships

Several prerequisites:

Mitchell Award, High School Senior or graduate, Accepted to College/School, more

U.S. Air Force Academy Prep School

Must have earned Mitchell Award and meet requirement of cadet scholarships

AVIATION SCHOLARSHIPS THROUGH EAA

WWW.EAA.ORG/EAA/LEARN-TO-FLY/SCHOLARSHIPS



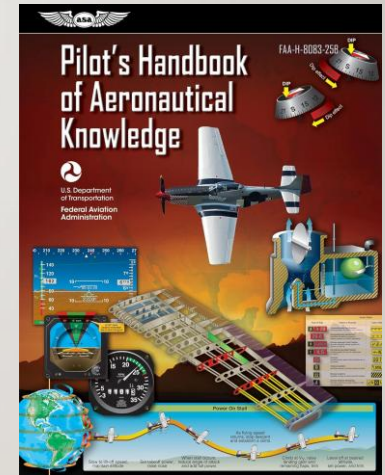
- Flight Training
 - Listing of several scholarships
 - Preferences for strong passion for aviation with participation in aviation events and volunteer work as well as EAA members
- Post-Secondary Scholarships
 - Several scholarships for pilot training AND aeronautical engineering, aviation management, airframe and power plant (A&P) maintenance, and more...
- Ray Aviation Scholarships
 - Merit-based up to \$12,000
 - Administered through EAA Chapters
- Additional questions: Scholarships@EAA.org.



Image: Hal Durbin Memorial Scholarship Winner

STUDY & TRAINING MATERIALS

- FAA (www.faa.gov) – Everything you need is on-line
 - Pilots Handbook of Aeronautical Knowledge (PHAK)
 - Airplane Flying Handbook (AFH)
 - Airmen Information Manual (AIM)
 - Federal Aviation Regulations (FARs)
 - Printed versions available
- FAA Safety (www.faasafety.gov)
 - Seminars and training (e.g., Pilot speakers, Aviation Safety Days)
- King Schools (www.kingschools.com)
- AOPA ASI (www.aopa.org/training-and-safety/air-safety-institute)
 - On-line Training Courses



STAY INFORMED

- AvWeb (www.avweb.com)
- General Aviation News (www.generalaviationnews.com)
- Aviation Week (www.aviationweek.com)
- AOPA Weekly Video and Newsletters (www.aopa.org)
- EAA Weekly Newsletters (www.eaa.org)
- Social Flight (www.socialflight.com)
- Many other sources

AVIATION CAREERS – MORE THAN JUST PILOTS

- Pilots (Military, Corporate, Schedule Airlines)
- Aviation Maintenance Technician
- Avionics Technicians
- Airlines (Dispatcher, Freight, Meteorologist, Station Manager)
- Air Traffic Controller
- Aerospace Engineers & Technicians
- NTSB Accident Investigation
- Drone Pilots (Remote Pilot License)



LOCAL AIRPORTS – MAKE CONTACT

- Cleveland Burke Lakefront (KBKL)
 - www.zoneaviation.com
- Cuyahoga Co. Airport – Richmond Hts. (KCGF)
 - www.tandgflyng.com
- Weltzien SkyPark – Wadsworth (I5G)
 - www.flyskypark.com
- Medina Co. Airport (IG5)
- Lorain Co. Airport (KLPR)
- Geauga Co. Airport – EAA Chapter #5 (7G8)
 - chapters.eaa.org/eea5

AVIATION MUSEUMS – ENLIGHTEN

- MAPS – Akron-Canton Regional Airport
 - mapsairmuseum.org
- Liberty Aviation Museum – Port Clinton
 - www.libertyaviationmuseum.org
- IWASM – Cleveland Burke Lakefront
 - www.iwasm.org
- Wright-Patterson USAF Museum – Dayton
 - www.nationalmuseum.af.mil
- Champaign Aviation Museum – Urbana, Ohio
 - www.champaignaviationmuseum.org
- AirZoo – Kalamazoo, MI
 - www.airzoo.org
- Udvar-Hazy – Washington, DC
 - airandspace.si.edu/udvar-hazy-center

TIME & MONEY

- Starting studying early
- Look over multiple flight training approaches
- Seek out Flight Scholarships and Grants
- When learning – Fly Often – at least once per week
- **Set aside the funds so that your training is not interrupted
- Getting a Private Pilot License on your own
 - Cost: About \$10,000-20,000
 - Time: About 6 months

AIRLINE MENTORING

Many airlines have mentoring and assistance programs for new and aspiring pilots



- <https://unitedaviate.com/>
- <https://www.delta.com/us/en/careers/pilots/propel>
- <https://atpflightschool.com/airline-career-pilot-program/>
- <https://www.skywest.com/skywest-airline-jobs/career-guides/pilot-pathway-program/>
- <https://careers.southwestair.com/d225>

TIPS TO MAKE IT HAPPEN

- Visit airports
- Talk to Pilots and Flight Instructors
- Network with others
- Visit Universities with flight programs – KSU, OSU
- Start studying
- Decide on your career path
- Take advantage of free resources
- Stay connected

AVIATION SITES TO EXPLORE

www.aopa.org
www.aopa.org/AV8RS/
www.eaa.org
www.eaa.org/ea/youth/free-ye-flights
chapters.eaa.org/ea5
www.airventure.org
www.joincap.com
www.faa.gov
www.faasafety.gov
www.kingschools.com
www.avweb.com
www.generalaviationnews.com
www.aviationweek.com
www.socialflight.com
mapsairmuseum.org
www.flyingmag.com/careers
www.aopa.org/training-and-safety/air-safety-institute
www.faa.gov/jobs/career_fields/aviation_careers/
www.faa.gov/education/grants_and_scholarships/aviation/
www.eaa.org/ea/learn-to-fly/scholarships/
calaero.edu/dreamstakeflight/
www.aopa.org/training-and-safety/learn-to-fly/aviation-scholarships
www.gocivilairpatrol.com/programs/cadets/cadetinvest
www.libertyaviationmuseum.org
www.iwasm.org
www.pheasantrunairport.org
www.nationalmuseum.af.mil
www.airzoo.org
airandspace.si.edu/udvar-hazy-center
www.flyskypark.com
www.aviation.com
www.exploring.org/aviation/
erau.edu
www.kent.edu/cae
www.airnav.com
www.rovingbits.com/aero.html
flightaware.com
skyvector.com

