



AD – Aviation Machinist’s Mate

Aviation Machinist’s Mate are aircraft engine mechanics. They inspect, adjust, test, repair and overhaul aircraft engines and propellers. ADs also perform routine maintenance, prepare aircraft for flight and assist in handling aircraft on the ground.

What They Do

- maintaining and servicing aircraft engine, fuel and lubrication systems;
- handling and servicing aircraft ashore or aboard ship;
- performing complete aircraft turboshaft/turboprop engine repair;
- determining reasons for engine degradation via spectrometric oil analysis tests;
- evaluating jet engine performance, using jet test cells for fixed turbojet engines;
- performing helicopter maintenance, installing and maintaining engines, drive accessories and gear boxes;
- performing propeller repairs;
- Possibly functioning as aircrewman in various types of aircraft.

Working Environment

Aviation Machinist's Mate may be assigned to sea or shore duty any place in the world, so their working environment varies considerably. They may work in hangars or hangar decks, outside on flight decks or flight lines at air stations.

Opportunities

Opportunities are excellent for qualified applicants to enter the AD rating. About 6,100 men and women now work in this rating.

Qualifications and Interests

People in this rating should be able to express themselves clearly in speaking and writing. They should have no speech impediment, and they must pass hearing and color perception tests.

ADs need good memories and the ability to do repetitive tasks, perform detailed work and keep accurate records. Manual dexterity and teamwork are also vital.

Normal hearing and color perception is required for this rating.

Earn College Credit



The American Council on Education recommends that semester hour credits be awarded in the vocational certificate and lower-division bachelor's/associate's degree categories for courses taken in this rating on office machines and general clerical procedures. To see the college credits available via a **Joint Service Transcript** for this rating:

AD

https://www.cool.navy.mil/usn/jst/ad_jst.pdf

Career Path After Recruit Training

Enlistees are taught the fundamentals of this rating through on-the-job training or formal Navy schooling. Advanced technical and operational training is available in this rating during later stages of career development.

School	Present Location	Approximate Training Time	Subjects	Training Methods
AD Core and Strand "A" School	Pensacola, FL Lemoore, CA, Virginia Beach/Norfolk, VA, San Diego, CA, Whidbey Island, WA, Jacksonville, FL, Tinker, OK	4 weeks (core) 2 weeks (strand)	Aviation basic theory and basic skills required for rating	Group instruction in classroom and shop

After completion of AD Core "A" school, aviation machinist's mates attend one of three strands: Helo, Turbojet or Turboprop for two weeks before being assigned to aviation squadrons, aircraft carriers or to other Navy ships carrying aircraft, to Naval Air Stations or other aviation shore facilities in the United States or overseas. Additionally, you will likely attend an advanced technical school ("C" school) enroute to your first duty station. In the "C" school, you will specialize in the aircraft at your ultimate duty station, for example, the F/A-18 Hornet or EA-6B Prowler. During a 20-year period in the Navy, ADs spend about 50 percent of their time assigned to fleet units and 50 percent to shore stations.



AD – Aviation Machinist’s Mate

Earn Department of Labor (DOL) Nationally Recognized Apprenticeships



The United Services Military Apprenticeship Program (USMAP) is a formal military training program that provides active duty and Full Time Support (FTS) Service members the opportunity to improve their job skills and to complete their civilian apprenticeship requirements while they are on active duty. The U.S. Department of Labor (DOL) provides the nationally recognized "Certificate of Completion" upon program completion. Visit United Services Military Apprenticeship Program (USMAP) for LS apprenticeships.

AD

<https://usmap.netc.navy.mil/usmapss/static/navyRates.htm>

Earn Industry Recognized Credentials



Navy Credentialing Opportunities On-Line (Navy COOL) Navy COOL catalogs and defines comprehensive information on occupational credentials - including certifications, licenses, and apprenticeships - correlating with every Navy rating and some collateral duties. It provides "how to" instructions for pursuing these credentials, links to credentialing organizations, and cross-references to programs that help Sailors pay for credentialing fees. Shortly following the initial rating technical training (Class "A" technical school), Sailors may be able to take advantage of earning civilian/industry certifications & licenses (credentials), funded through Navy COOL. Visit the Navy COOL website to view these opportunities. See the link below.

AD

<https://www.cool.navy.mil/usn/enlisted/ad.htm>

Manage a Navy Career with Navy LaDR (Learning and Development Roadmap)



To see the Navy LaDR (Learning and Development Roadmap) for this rating:

AD

https://www.cool.navy.mil/usn/LaDR/ad_e1_e9.pdf

Earn Skill Sets Towards Civilian Related Occupations



The skill sets for this rating crosswalk to civilian related occupations listed by the U.S. Department of Labor. To see Related Civilian, Federal, and Military Sealift Command Occupations for this rating, see the link below.

AD

<https://www.cool.navy.mil/usn/enlisted/ad.htm>

Revised: 1/17