EN – Engineman

Engineman operate and maintain diesel engines and reduction gears used for ship propulsion and auxiliary machinery such as diesel generators, pumps and oil purifiers. They also maintain auxiliary machinery outside of main machinery spaces, such as electro hydraulic steering engines and elevators, refrigeration plants, air conditioning systems and desalination plants. They will also operate and maintain compressed gas producing plants, deck equipment including cranes, winches and hoists, condensers and heat exchange devices and small boats.

What They Do

- aligning piping systems for oil, water, and air for controlling the operation of diesel engines used for ship propulsion and service systems;
- controlling operation of diesel generators used to produce electrical power;
- cleaning, adjusting, testing and performing other preventive maintenance on a ship's auxiliary boilers, main engines, diesel generators and other auxiliary machinery including steering engines, elevators, winches, pumps and associated valves;
- operating and maintaining desalinationization plants (distilling plants) to make fresh water from seawater;
- maintaining refrigeration plants, air conditioning systems and galley equipment;
- repairing or replacing valves, pumps, heat exchangers, compressors, steam turbines and hydraulic or pneumatic control devices;
- operating and maintaining small boats.
- making entries in and analyzing machinery operating records and reports

Working Environment

Engineman work any where on a ship in main engine rooms, auxiliary machinery rooms, engine rooms or shops. These locations are sometimes hot and noisy. ENs may be required to perform some heavy physical work. They must be able to work closely with others and, in some cases, with limited supervision.

Opportunities

The Navy has a continuing need for qualified Engineman. Approximately 5,500 men and women perform duties in the EN rating aboard ships and at shore stations. Opportunities for placement are excellent for qualified candidates.

Qualifications and Interests

Engineman should have clear speech, physical stamina, manual dexterity and the ability to work with others as a team. They should know how to use common hand and power tools and enjoy working with mechanical devices. Other helpful characteristics are resourcefulness and an interest in learning new ideas and skills. Curiosity, record keeping talent and physical strength are also required. Normal color hearing is required for this rating.

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.

<table>
<thead>
<tr>
<th>School</th>
<th>Present Location</th>
<th>Approximate Training Time</th>
<th>Subjects</th>
<th>Training Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Engineering Common Core and &quot;A&quot; School</td>
<td>Great Lakes, IL</td>
<td>14 Weeks</td>
<td>Introduction to technical documentation, basic mechanical theory, safety precautions and programs, alignment and operation of piping systems and equipment, hand tools, precision instruments, lubricants, bearings, couplings, gears, valves, pumps and the Maintenance Material Management System (3M). Introduction to technical documentation, basic watch standing procedures, alignment and operation of piping systems and equipment, hand tools, precision instruments, lubricants and lubricating systems, bearings, couplings, gears, valves, the Maintenance Material Management System (3M), basic technical knowledge, terminology and watch standing procedures for the operation of conventional marine steam propulsion systems and preventive maintenance of plant equipment.</td>
<td>Group instruction, classroom and shop</td>
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</table>

After BECC school, Engineman will be assigned to Navy shops aboard ships, at repair bases, and various other shore facilities in the United States or overseas. During a 20-year period in the Navy, EN’s spend about 70 percent of their time assigned to fleet units and 30 percent to shore stations. Shore assignments are normally at shore intermediate activities (SIMAs) as instructors in Apprenticeship Training schools or "C" Schools, as recruit company commanders or in recruiting duty.
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**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](https://www.cool.navy.mil/usn/jst/en_jst.pdf) for this rating:

**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 EN apprenticeships.

**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.

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

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

**Download the Navy COOL App:**

- Navy COOL App (iOS):
- Navy COOL App (Android):
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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.

EN

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