

# Gunner's Mate (GM)

# NAVY

Gunner's mates are responsible for the operation and maintenance of guided missile launching systems, underwater explosive weapons such as torpedoes, rockets and missiles and the systems used to launch them, gun mounts and other ordnance equipment, as well as small arms magazines. They work with electrical and electronic circuitry; mechanical, hydraulic and pneumatic systems.

## What They Do

The duties performed by GMs include:

- Operating and maintaining guided missile launching systems, torpedo launching/handling systems, rocket launchers, gun mounts and other ordnance systems and equipment;
- Training and supervising crews in the use of all types of ordnance equipment, from large caliber guns and missile systems to small arms;
- stowing, securing, requisitioning and reclassifying explosives;
- operating and maintaining magazine flooding and sprinkling systems;
- making mechanical, electrical and electronic casualty analysis using technical publications, blueprints, schematics and circuit diagrams;
- repairing, maintaining, testing and calibrating ordnance equipment;
- repairing, maintaining, testing and calibrating micro processing equipment;
- use and care for common hand tools, special tools and soldering equipment;
- perform preventive and corrective maintenance on hydraulic and pneumatic systems and components associated with launching systems;
- interpret color coding to determine values of capacitors and resistors, and tracing internal connections of power and audio transformers, chassis wiring and multi-conductor cables;
- operating and maintaining night optical devices;
- operating optical scanning and marking devices to label, identify and report explosives' utilization/expenditure;
- serve as team member performing inspections and final closeout checks on weapons;
- install and remove torpedo exploder mechanisms.

## Credit Recommendations

The American Council on Education recommends that eight semester hours in principles of technology, two in hydraulics and pneumatics, and one in industrial safety be awarded in the vocational certificate category and four semester hours in basic AC/DC circuits and three in solid state electronics be awarded in the baccalaureate/associate degree category.

## 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
Class "A" Technical School	SSC Great Lakes, Ill.	27 weeks	Basic technical knowledge and skills of electricity and electronics; operation of torpedoes and launch systems.	Group instruction and self-paced and practical application.

After completion of their Navy school training, GMs serve on combat surface craft and tenders, at aviation activities and in weapons installations, ordnance depots or other shore stations in the United States or overseas. During a 20-year period in the Navy, GMs spend about 60 percent of their time assigned to fleet units and 40 percent to shore stations.

## Qualifications and Interests

GM's should be capable of learning how to use test equipment and applicable hand tools to perform casualty analysis and arrive at solutions for problems in solid state, digital electronics, microprocessor logic, electrical, hydraulic and mechanical equipment.. They should also have good memories, the ability to do detailed work, perform repetitive tasks and keep accurate records. Due to the sensitive nature of some of the technical duties, the GM rating has special eligibility standards for reliability, integrity and trustworthiness. GMs must be U.S. citizens eligible for a security clearance. Normal hearing and color perception is required.

## Working Environment

Gunner's Mates work in almost every kind of Navy environment: ship, shore, in the United States or overseas. Their work and specialties may involve indoor or outdoor situations, clean or dirty work, deck or shop, and any kind of climate or temperature. They work alone or with others independently or closely supervised. Their work can be both mental and physical.

## Opportunities

Opportunities are excellent for qualified applicants. About 4,500 men and women work in the GM rating.

## O\*Net SOC Code O\*Net SOC Title

11-3071.02 Storage and Distribution Managers  
 17-3023.01 Electronics Engineering Technicians  
 43-5061.00 Production, Planning, and Expediting Clerks  
 47-5031.00 Explosives Workers, Ordnance Handling Experts, and Blasters  
 49-3042.00 Mobile Heavy Equipment Mechanics, Except Engines  
 49-9098.00 Helpers - Installation, Maintenance, and Repair Workers  
 51-9061.00 Inspectors, Testers, Sorters, Samplers, and Weighers  
 55-3014.00 Artillery and Missile Crew Members;

Since Navy programs and courses are revised at times, the information contained on this rating card is subject to change.

(Revised 01/08)