

# Machinery Repairman (MR)



Machinery Repairmen are skilled machine tool operators. They make replacement parts and repair or overhaul ship's engines and auxiliary systems. They also work on deck equipment including winches and hoists, condensers and heat exchange devices. MR's occasionally operate main propulsion and auxiliary machinery in addition to performing machine shop and repair duties.

## What they do

The duties performed by MRs include:

- repairing and operating auxiliary machinery;
- calculating time and material needed for machine shop work and the repairing of auxiliary machinery;
- drawing sketches and preparing specifications for replacement parts;
- working from sketches and specifications to produce replacement parts;
- operating machine shop equipment, such as lathes, drill presses, shapers, bench grinders, milling machines, boring mills, power hacksaws and computer numerically controlled machinery;
- working with precision measuring instruments such as micrometers, depth gauges, verniers, calipers, gauge blocks, protractors and dial indicators;
- engraving metal and other materials;
- performing electroplating and flame spraying operations.

## Credit Recommendations

The American Council on Education recommends that semester hour credits be awarded in the vocational certificate or lower-division bachelor's/associate's degree categories for courses taken in this rating on machine technology, machine shop mathematics, blueprint reading and metric system of measurement.

## Qualifications and Interests

An orientation toward tools, equipment, and machinery is a very important qualification for this rating. Manual dexterity, the ability to do detailed work and repetitive tasks, arithmetic skills, resourcefulness and a good memory are also important. Other helpful attributes are good communication skills and an ability

## 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 during later stages of career development.

School	Present Location	Approximate Training Time	Subjects	Training Methods
Basic Engineering Common Core	Great Lakes, IL	9 Weeks	Introduction to technical documentation and basic mechanical theory.	Group instruction with practical application
MR Strand Technical School	Great Lakes, IL	4 Weeks	Familiarization with machines, shop tools, equipment, and methods used on the job	Group instruction, and practical application

After "A" school, Machinery Repairmen will be assigned to Navy machine 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, MR's spend about 50 percent of their time assigned to fleet units and 50 percent to shore stations.

to work with others. Curiosity, record keeping talent and physical strength are also required. Normal hearing is required.

## Working Environment

People in the MR rating usually work indoors in a machine shop situation where many motor-powered machine tools are present. They work closely with others and are closely supervised.

## Opportunities

Entry opportunities are limited to highly qualified applicants for this rating. About 770 men and women work in the MR rating.

## Related Civilian Jobs-O\*Net SOC Code

O\*Net SOC Title  
 17-3031.00 Surveying and Mapping Technicians  
 33-2011.00 Fire Fighters  
 49-1011.00 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers  
 49-3042.00 Mobile Heavy Equipment Mechanics, Except Engines  
 49-9012.00 Control and Valve Installers and Repairers, Except Mechanical Door  
 49-9041.00 Industrial Machinery Mechanics  
 49-9043.00 Maintenance Workers, Machinery

51-1011.00 First-Line Supervisors/Managers of Production and Operating Workers  
 51-2031.00 Engine and Other Machine Assemblers

51-4011.00 Computer-Controlled Machine Tool Operators, Metal and Plastic  
 51-4032.00 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic  
 51-4033.00 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic  
 51-4034.00 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic  
 51-4035.00 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic  
 51-4041.00 Machinists  
 51-4081.00 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic  
 51-4111.00 Tool and Die Makers  
 51-4193.00 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic

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

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