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ACE RECOMMENDATIONS



Machinist's Mate (Surface) (MM)



L=Lower Division Baccalaureate/Associate Degree
 U=Upper Division Baccalaureate
 V=Vocational Certificate
 G=Graduate

Military Progression: (The amount of credit reflected in this section is dependent upon a Sailor's rank.)

		Type	Semester Hours	Cumulative Hours
Fireman				
	Blueprint Reading	L	1	
	Introduction to Marine Engineering	L	3	
	Swimming (If qualified as Swimmer, First Class)	L	1	
				5 L
Machinist's Mate, Third Class				
	Applied Computer Technology	L	1	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	1	
	Power Systems Engineering (Steam Turbines)	L	3	
	Power Systems Maintenance	L	3	

				16 L
Machinist's Mate, Second Class (Replaces MM3 Credit)				
	Applied Computer Technology	L	2	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	2	
	Power Systems Engineering (Steam Turbines)	L	4	
	Power Systems Maintenance	L	5	
				21 L
Machinist's Mate, First Class (Replaces MM2 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	1	
	Personnel Supervision	L	2	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	2	
				29 L
				2 U
Chief Machinist's Mate (Replaces MM1 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	2	
	Personnel Supervision	L	3	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	3	
	Management Problems	U	3	
				31 L
				6 U
Senior Chief Machinist's Mate (Replaces MMC Credit)				
	Applied Computer Technology	L	3	
	Bsic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	3	
	Personnel Supervision	L	3	

	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	4	
	Management Problems	U	4	
				32 L
				8 U
Master Chief Machinist's Mate (Replaces MMCS Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	3	
	Personnel Supervision	L	3	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	6	
	Management Problems	U	6	
				32 L
				12 U

Initial Skills Training:

Recruit Training (Basic Training) (A-950-0001)				
	First Aid and Safety	L	1	
	Personal and Community Health	L	1	
	Personal Fitness and Conditioning	L	1	
				3 L
Machinist's Mate, Class A (A-661-0103)				
	Basic Machinery	L	3	
	Mechanical Systems	L	2	
				8 L

Follow on Training:

The following courses are available to personnel within the rating, but a given individual may not take all courses.

Air Compressor and Compressed Air Systems Component Maintenance (A-651-0070)				
	Mechanical Compressor Systems	L	2	
Auxiliary Machinery Controls, Governors and Regulators Maintenance (A-651-0069)				
	Mechanical Systems Laboratory	L	1	
	Machinery Controls, Governors, and Regulators Maintenance	V	3	
Cryogenic Equipment Technician (J-750-0015)				
	Basic Physics	L	3	
	Industrial Safety	L	1	
	Pneumatic Control System Maintenance	L	3	
	Ultra Refrigeration Theory	L	3	
Diesel Engine Inspector Training and Certification (A-652-0311)				
	Advanced Diesel Engine Inspection or Repair Diagnosis	L	3	
	Diesel Engine Laboratory	L	1	
Diesel Engine, Class C, Module 3 (A-652-0323)				
	Diesel Engine (Theory and Operation)	L	3	
	Deisel Engine Troubleshooting and Maintenance	L	2	
Engineering Hydraulic Systems and Components Basic (K-652-2146)				
	Basic Hydraulics	L	2	
Engineering Maintenance Principles, Practices, and Administration (A-651-0064)				
	Machinery Maintenance	L	1	
	Machinery Maintenance Laboratory	L	1	

Machine Tool Operator (A-702-0028)				
	Manufacturing and Mechanical Technology (Lathe and Milling Machine Operation) Lecture	L	1	
	Mechanical Technology (Lathe and Milling Machine Operation)	L	1	
Pump Maintenance (A-651-0067)				
	Mechanical Systems Laboratory	L	1	
	Machinery Pump Repair	V	3	
Senior Enlisted Propulsion Engineering (A-651-0110)				
	*Pending Evaluation			
Steam Generator Maintenance (A-651-0075)				
	Steam Generator Repair and Maintenance	L	2	
Trident Defensive Weapons Ordnance Subsystem Operation and Maintenance (A-123-0178)				
	Electromechanical and Fluid System Applications Laboratory	L	1	
	Electromechanical Systems Applications	V	2	

Level: V=Vocational Certificate L=Lower Division Baccalaureate/Associate Degree U=Upper Division Baccalaureate G=Graduate
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ACE RECOMMENDATIONS



Machinist's Mate (Nuclear) (MM)



L=Lower Division Baccalaureate/Associate Degree
 U=Upper Division Baccalaureate
 V=Vocational Certificate
 G=Graduate

Military Progression: (The amount of credit reflected in this section is dependent upon a Sailor's rank.)

		Type	Semester Hours	Cumulative Hours
Fireman				
	Blueprint Reading	L	1	
	Introduction to Marine Engineering	L	3	
	Swimming (If qualified as Swimmer, First Class)	L	1	
				5 L
Machinist's Mate, Third Class				
	Applied Computer Technology	L	1	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	1	
	Power Systems Engineering (Steam Turbines)	L	3	
	Power Systems Maintenance	L	3	

				16 L
Machinist's Mate, Second Class (Replaces MM3 Credit)				
	Applied Computer Technology	L	2	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	2	
	Power Systems Engineering (Steam Turbines)	L	4	
	Power Systems Maintenance	L	5	
				21 L
Machinist's Mate, First Class (Replaces MM2 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	1	
	Personnel Supervision	L	2	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	2	
				29 L
				2 U
Chief Machinist's Mate (Replaces MM1 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	2	
	Personnel Supervision	L	3	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	3	
	Management Problems	U	3	
				31 L
				6 U
Senior Chief Machinist's Mate (Replaces MMC Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	3	
	Personnel Supervision	L	3	

	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	4	
	Management Problems	U	4	
				32 L
				8 U
Master Chief Machinist's Mate (Replaces MMCS Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Blueprint Reading	L	3	
	Maintenance Management	L	3	
	Personnel Supervision	L	3	
	Power Systems Engineering (Steam Turbines)	L	6	
	Power Systems Maintenance	L	6	
	Field Experience in Management	U	6	
	Management Problems	U	6	
				32 L
				12 U

Initial Skills Training:

Recruit Training (Basic Training) (A-950-0001)				
	First Aid and Safety	L	1	
	Personal and Community Health	L	1	
	Personal Fitness and Conditioning	L	1	
				3 L
Machinist's Mate, Class A (A-661-0103)				
	Basic Machinery	L	3	
	Mechanical Systems	L	2	
				8 L
Naval Nuclear Power School, Enlisted (A-661-0010)				
	AC Circuits	L	2	
	Atomic and Nuclear Physics	L	1	
	DC Circuits	L	2	

	Digital Principles	L	2	
	Electric Machines	L	2	
	General Chemistry and Principles of Materials	L	3	
	General Physics	L	5	
	Heat Transfer and Fluid Flow	L	3	
	Hydraulic Systems	L	2	
	Nuclear Reactor Engineering	L	3	
	Radiation Protection Technology	L	1	
	Technical Mathematics	L	4	
				38 L
Nuclear Electronics Technician, Class A (A-661-0105)				
	AC Circuits	L	3	
	Basic Instrumentation and Controls	L	4	
	DC Circuits	L	3	
	Digital Circuits and Microprocessors	L	4	
	Electrical Troubleshooting and Repair	L	3	
	Solid State Devices and Circuits	L	4	
	Technical Mathematics (including Algebra II)	L	3	
				62 L

Follow on Training:

The following courses are available to personnel within the rating, but a given individual may not take all courses.

Air Compressor and Compressed Air Systems Component Maintenance (A-651-0070)				
	Mechanical Compressor Systems	L	2	
Auxiliary Machinery Controls, Governors and Regulators Maintenance (A-651-0069)				
	Mechanical Systems Laboratory	L	1	
	Machinery Controls, Governors, and Regulators Maintenance	V	3	
Cryogenic Equipment Technician (J-750-0015)				
	Basic Physics	L	3	
	Industrial Safety	L	1	
	Pneumatic Control System Maintenance	L	3	

	Ultra Refrigeration Theory	L	3	
Diesel Engine Inspector Training and Certification (A-652-0311)				
	Advanced Diesel Engine Inspection or Repair Diagnosis	L	3	
	Diesel Engine Laboratory	L	1	
Diesel Engine, Class C, Module 3 (A-652-0323)				
	Diesel Engine (Theory and Operation)	L	3	
	Diesel Engine Troubleshooting and Maintenance	L	2	
Engineering Hydraulic Systems and Components Basic (K-652-2146)				
	Basic Hydraulics	L	2	
Engineering Maintenance Principles, Practices, and Administration (A-651-0064)				
	Machinery Maintenance	L	1	
	Machinery Maintenance Laboratory	L	1	
Machine Tool Operator (A-702-0028)				
	Manufacturing and Mechanical Technology (Lathe and Milling Machine Operation) Lecture	L	1	
	Mechanical Technology (Lathe and Milling Machine Operation)	L	1	
Pump Maintenance (A-651-0067)				
	Mechanical Systems Laboratory	L	1	
	Machinery Pump Repair	V	3	
Senior Enlisted Propulsion Engineering (A-651-0110)				
	*Pending Evaluation			
Steam Generator Maintenance (A-651-0075)				
	Steam Generator Repair and Maintenance	L	2	
Trident Defensive Weapons Ordnance Subsystem Operation and Maintenance (A-123-0178)				
	Electromechanical and Fluid System Applications	L	1	

	Laboratory			
	Electromechanical Systems Applications	V	2	

Level: V=Vocational Certificate L=Lower Division Baccalaureate/Associate Degree U=Upper Division Baccalaureate G=Graduate
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ACE RECOMMENDATIONS



Machinist's Mate (Submarine) (MM)



L=Lower Division Baccalaureate/Associate Degree
 U=Upper Division Baccalaureate
 V=Vocational Certificate
 G=Graduate

Military Progression: (The amount of credit reflected in this section is dependent upon a Sailor's rank.)

		Type	Semester Hours	Cumulative Hours
Fireman				
	Blueprint Reading	L	1	
	Introduction to Marine Engineering	L	3	
	Swimming (If qualified as Swimmer, First Class)	L	1	
				5 L
Machinist's Mate, Third Class				
	Applied Computer Technology	L	2	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	2	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	1	
	Pollution Control and Fire Safety	L	2	
	Records Management	L	2	

	Refrigeration	L	2	
				22 L
Machinist's Mate, Second Class (Replaces MM3 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	3	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	2	
	Personnel Supervision	L	2	
	Pollution Control and Fire Safety	L	3	
	Records Management	L	2	
	Refrigeration	L	3	
				29 L
Machinist's Mate, First Class (Replaces MM2 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	3	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	3	
	Personnel Supervision	L	3	
	Pollution Control and Fire Safety	L	4	
	Records Management	L	2	
	Refrigeration	L	4	
	Environmental Safety Management	U	2	
	Fire Fighting	U	2	
				33 L
				4 U
Chief Machinist's Mate (Replaces MM1 Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	3	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	3	
	Personnel Supervision	L	3	
	Pollution Control and Fire Safety	L	4	
	Records Management	L	2	
	Refrigeration	L	4	
	Environmental Safety Management	U	3	
	Fire Fighting	U	3	
	Law Enforcement	U	1	

				33 L
				7 U
Senior Chief Machinist's Mate (Replaces MMC Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	3	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	3	
	Personnel Supervision	L	3	
	Pollution Control and Fire Safety	L	4	
	Records Management	L	2	
	Refrigeration	L	4	
	Environmental Safety Management	U	3	
	Field Experience in Management	U	3	
	Fire Fighting	U	3	
	Law Enforcement	U	2	
				33 L
				11 U
Master Chief Machinist's Mate (Replaces MMCS Credit)				
	Applied Computer Technology	L	3	
	Basic Marine Engineering	L	3	
	Diesel Maintenance	L	3	
	Hydraulics and Pneumatics	L	3	
	Mechanical Blueprint Reading	L	3	
	Personnel Supervision	L	3	
	Pollution Control and Fire Safety	L	4	
	Records Management	L	2	
	Refrigeration	L	4	
	Environmental Safety Management	U	3	
	Field Experience in Management	U	3	
	Fire Fighting	U	3	
	Law Enforcement	U	3	
				33 L
				12 U

Initial Skills Training:

Recruit Training (Basic Training) (A-950-0001)				
	First Aid and Safety	L	1	

	Personal and Community Health	L	1	
	Personal Fitness and Conditioning	L	1	
				3 L
Machinist's Mate, Class A (A-661-0103)				
	Basic Machinery	L	3	
	Mechanical Systems	L	2	
				8 L

Follow on Training:

The following courses are available to personnel within the rating, but a given individual may not take all courses.

Air Compressor and Compressed Air Systems Component Maintenance (A-651-0070)				
	Mechanical Compressor Systems	L	2	
Auxiliary Machinery Controls, Governors and Regulators Maintenance (A-651-0069)				
	Mechanical Systems Laboratory	L	1	
	Machinery Controls, Governors, and Regulators Maintenance	V	3	
Cryogenic Equipment Technician (J-750-0015)				
	Basic Physics	L	3	
	Industrial Safety	L	1	
	Pneumatic Control System Maintenance	L	3	
	Ultra Refrigeration Theory	L	3	
Diesel Engine Inspector Training and Certification (A-652-0311)				
	Advanced Diesel Engine Inspection or Repair Diagnosis	L	3	
	Diesel Engine Laboratory	L	1	
Diesel Engine, Class C, Module 3 (A-652-0323)				
	Diesel Engine (Theory and Operation)	L	3	
	Diesel Engine Troubleshooting and Maintenance	L	2	
Engineering Hydraulic Systems and Components Basic (K-652-2146)				
	Basic Hydraulics	L	2	

Engineering Maintenance Principles, Practices, and Administration (A-651-0064)				
	Machinery Maintenance	L	1	
	Machinery Maintenance Laboratory	L	1	
Machine Tool Operator (A-702-0028)				
	Manufacturing and Mechanical Technology (Lathe and Milling Machine Operation) Lecture	L	1	
	Mechanical Technology (Lathe and Milling Machine Operation)	L	1	
Pump Maintenance (A-651-0067)				
	Mechanical Systems Laboratory	L	1	
	Machinery Pump Repair	V	3	
Senior Enlisted Propulsion Engineering (A-651-0110)				
	*Pending Evaluation			
Steam Generator Maintenance (A-651-0075)				
	Steam Generator Repair and Maintenance	L	2	
Trident Defensive Weapons Ordnance Subsystem Operation and Maintenance (A-123-0178)				
	Electromechanical and Fluid System Applications Laboratory	L	1	
	Electromechanical Systems Applications	V	2	

Level: V=Vocational Certificate L=Lower Division Baccalaureate/Associate Degree U=Upper Division Baccalaureate G=Graduate
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