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## ACE RECOMMENDATIONS



### Aviation Electrician's Mate, (AE)



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
<b>Airman</b>				
	Fundamentals of Aircraft Service/Maintenance	V	2	
				2 V
<b>Aviation Electrician's Mate, Third Class</b>				
	AC/DC Theory	L	2	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	3	
	Hazmat Control	L	1	
				12 L
				2 V

<b>Aviation Electrician's Mate, Second Class (Replaces AE3 Credit)</b>				
	AC/DC Theory	L	3	
	Computer Applications	L	3	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	4	
	Hazmat Control	L	1	
				17 L
				2 V
<b>Aviation Electrician's Mate, First Class (Replaces AE2 Credit)</b>				
	AC/DC Theory	L	3	
	Computer Applications	L	3	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	5	
	Principles of Supervision	L	2	
	Hazmat Control	L	1	
	Technical Report Writing	L	1	
	Organizational Behavior and Management	U	2	
				21 L
				2 U
				2 V
<b>Chief Aviation Machinist's Mate (Replaces AE1 Credit)</b>				
	AC/DC Theory	L	3	
	Computer Applications	L	3	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	5	
	Principles of Supervision	L	3	
	Hazmat Control	L	1	
	Technical Report Writing	L	3	
	Human Resource Management	U	1	

	Management Internship	U	2	
	Operations Management	U	2	
	Organizational Behavior and Management	U	2	
				24 L
				7 U
				2 V
<b>Senior Chief Aviation Electrician's Mate (Replaces AEC Credit)</b>				
	AC/DC Theory	L	3	
	Computer Applications	L	3	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	5	
	Principles of Supervision	L	3	
	Hazmat Control	L	1	
	Technical Report Writing	L	3	
	Human Resource Management	U	2	
	Logistics Management	U	3	
	Management Internship	U	3	
	Operations Management	U	3	
	Organizational Behavior and Management	U	3	
				24 L
				14 U
				2 V
<b>Master Chief Aviation Electrician's Mate (Replaces AECS Credit)</b>				
	AC/DC Theory	L	3	
	Computer Applications	L	3	
	Electrical/Electronics Laboratory	L	3	
	Electrical Safety Fundamentals	L	1	
	Electrical Test Instruments	L	2	
	Electrical Troubleshooting	L	5	
	Principles of Supervision	L	3	
	Hazmat Control	L	1	
	Technical Report Writing	L	3	
	Communication Techniques for Managers	U	3	
	Field Experience in Management	U	3	
	Human Resource Management	U	2	

	Interpersonal Skills	U	3	
	Leadership Principles	U	3	
	Logistics Management	U	3	
	Management Internship	U	3	
	Operations Management	U	4	
	Organizational Behavior and Management	U	4	
	Applied Leadership	G	1	
				24 L
				28 U
				1 G
				2 V

### Initial Skills Training:

<b>Recruit Training (Basic Training) (A-950-0001)</b>				
	First Aid and Safety	L	1	
	Personal and Community Health	L	1	
	Personal Fitness and Conditioning	L	1	
				3 L
<b>Aviation Electrician's Mate Strand, Class A1 (C-602-2039)</b>				
	Aircraft Electrical Systems	L	3	
	Aircraft Instrument Systems	L	3	
	Solid State Electronics	L	3	
				12 L
<b>Avionics Common Core, Class A1 (C-100-2020)</b>				
	AC Circuits	L	2	
	Aviation Fundamentals	L	2	
	DC Circuits	L	2	
	Solid State Circuits Electronics	L	2	
				20 L

## Follow on Training:

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

<b>Aircraft Sealed Instrument Repair Intermediate Maintenance (C-602-3019)</b>				
	*Pending Evaluation			
<b>AN/ASM-608 (V) Inertial Measurement Unit Test Set Operator/Maintainer Intermediate Maintenance (C-198-3060)</b>				
	Electronic Systems Troubleshooting and Maintenance	L	3	
<b>C-2A Electrical and Instruments Organizational Maintenance (C-602-9495)</b>				
	Aircraft Systems Fundamentals	L	2	
	Aircraft Maintenance Fundamentals	L	2	
<b>E-6A Flight Engineer Organizational Level Maintenance (C-050-3502)</b>				
	Electrical, Instruments/Navigation/Lighting Laboratory	L	1	
	Electrical, Instruments/Navigation/Lighting Theory	L	1	
	Environmental, Fuel, and Oxygen Laboratory	L	1	
	Environmental, Fuel, and Oxygen Theory	L	1	
	Physical Science	L	1	
	Turbine Engines and Auxiliary Power Unit Laboratory	L	2	
	Turbine Engines and Auxiliary Power Unit Theory	L	2	
	Wheel Brakes, Hydraulics, Landing Gear, and Flight Control Laboratory	L	3	
	Wheel Brakes, Hydraulics, Landing Gear, and Flight Control Theory	L	3	
<b>E-6A Basic Flight Engineer (E-050-0404)</b>				
	Flight Engineer Basic	U	2	

<b>E-6A Electrical and Instrument Systems (Initial) Organizational Maintenance (C-602-3507)</b>				
	Introduction to Aircraft Systems Controls	L	3	
<b>E-6 Flight Engineer Initial Qualification (E-050-0401)</b>				
	Cockpit Resource Management	U	1	
	Flight Engineer-Flight Laboratory	U	3	
	Instrument Flight Theory	U	1	
	Transport Aircraft Systems	U	2	
<b>A-6/EA Electrical Connector/Wire Bundle Repair (C-602-3943)</b>				
	Electrical System Maintenance as Applied to Airframe and Power Plant Instruction	L	1	
	Electronic Cable Assembly and Maintenance	V	1	
<b>EA-6B Electrical and Instrument Systems (Career) Organizational Maintenance (C-602-9744)</b>				
	Aircraft Electrical Systems	L	3	
	Aircraft Electrical Systems Troubleshooting and Maintenance	L	1	
	Aircraft Primary Systems	L	1	
<b>F/A-18 Electrical Systems WRA Repair Intermediate Maintenance (C-602-3869)</b>				
	Aircraft Electrical System Testing	L	2	
<b>H-46 Automatic Flight Control Systems (AFCS) Organizational Maintenance (C-602-3428)</b>				
	Helicopter Flight Controls	L	1	
<b>Microminiature Electronics Repair (A-100-0073)</b>				
	Basic Electronic Fabrication Techniques	L	2	
<b>Miniature Electronics Repair (A-100-0072)</b>				
	Electronic Fabrication	L	3	

<b>Miniature/Microminiature Electronic Repair Inspector (A-100-0058)</b>				
	Electronics Maintenance and Troubleshooting	L	2	
<b>P-3 Connector and Wire Repair Organizational Maintenance (C-602-3573)</b>				
	Manufacture, Troubleshooting and Repair of Electrical Wire Harness Assemblies	V	2	
<b>P-3 Flight Engineer System Familiarization (C-050-3531)</b>				
	Aircraft Systems Theory and Operation	L	4	
<b>P-3C Integrated Electrical Systems (Career) Organizational Maintenance (C-602-9571)</b>				
	Aircraft Electrical Systems Troubleshooting and Maintenance	L	2	
	Aircraft Auxiliary Systems	L	2	

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