

Ship Engineers (53-5031)

Occupation description: Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	283	278	-1.8	11	22	33
United States	10,100	10,800	6.5	400	800	1,270

Job outlook

Alaska: Alaska's employment growth is low with moderate employment opportunities. [Read more.](#)

2018 Wages

	Mean Wage	Wage by Percentile				
	Mean	10th	25th	Median	75th	90th
United States	36.40	19.39	24.78	34.20	44.65	59.46
Alaska	30.59	18.04	23.74	29.19	36.30	44.41
Balance of State	29.67	16.05	23.27	28.59	35.75	44.40

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
432	270	62.5	65.5	51.5

2016 Potential Supply

Qualified but working in another occupation	52
Currently employed in a lower paid occupation	39
UI claimants previously working in occupation	48

2016 ALEXsys Employment Data

Number of registrants	38
Number of job position postings	5
Ratio of registrants to job position postings	7.6

Typical Entry-level Education, Experience, and/or On-the-job Training

Education: Postsecondary non-degree award

Work experience: Less than 5 years

On-the-job training: None

Training Resources

ABC of Alaska (Anchorage)		Degree
Confined Space Entry		

Alaska Nautical School (Wasilla)		Degree
Able Seaman		
Master up to 100 GT Near Coastal Water		Certificate
OUPV Near Coastal		
OUPV Restricted to Freshwaters and Rivers of Western Alaska		
Upgrade 100 GT Master to 200 GT Master		

Alaska Petroleum Academy (Kenai)		Degree
Confined Space Entry (8 Hours)		
Confined Space Rescue (16 Hours)		

Alaska Waters Consulting (Anchorage)		Degree
Alaska Waterwise		
Celestial Navigation		
Masters License - 25/50/100 Ton		
Masters upgrade - 100 Ton		
Masters upgrade - 200 Ton		
Masters/Mate upgrade - 200 Ton		
Navigation Rules of the Road		
OUPV License ("Six Pack License")		
Restricted OUPV License (Freshwater six pack)		

Alaska West Training Center (Fairbanks)		Degree
Permit Required Confined Space Entry - S01		
Permit Required Confined Space Entry and Fire Watch - S01a		
Permit Required Confined Space Rescue - S02		

AVTEC (Seward)		Degree
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Able Seaman	Certificate
Advanced Fire Fighting	
Advanced Fire Fighting Revalidation	
Advanced Training For Polar Operations (Polar Code)	
Assistance Towing	
Automatic Radar Plotting Aids (ARPA) Operations	Certificate
Basic First Aid and CPR	Certificate
Basic Meteorology	
Basic Training	Certificate
Basic Training For Polar Operations (Polar Code)	
Basic Training Revalidation	
Bridge Resource Management	Certificate
Crowd Management	
Electronic Chart Display and Information System (ECDIS)	
FCC Marine Radio Operators Examination (MROP)	Certificate
Global Maritime Distress & Safety Systems	Certificate
Ice Navigation	
Leadership and Managerial Skills	
Leadership and Teamworking Skills	
Marlinspike Seamanship	
Master 100 Tons/Mate 200 Tons	
Master/Mate 500 and 1600 Ton NC Prep Class	
Master/Mate Not More Than 200 Tons	Certificate
Medical Care Provider	
Meteorology	
Operator of Uninspected Passenger Vessels (OUPV)	
Proficiency in Survival Craft	Certificate
Qualified Member of the Engine Department (QMED)	
Radar Observer	Certificate
Radar Observer Refresher	Certificate
Radar Observer, Recertification	Certificate
Rating Forming Part of Navigational Watch	Certificate
Rating Forming Part of Navigational Watch (RFPNW) Assessments	
Tankship-Dangerous Liquids	Certificate
Vessel Personnel with Designated Security Duties	
Vessel Security Officer	
Visual Communications/Flashing Light	

Degree

Confined Space Entry (OSHA and NSTC Offered)	
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Confined Space Rescue (OSHA)	
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	Degree
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Environmental Management Inc (Anchorage)

Confined Space Procedures	Certificate
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	Degree
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Northern Industrial Training (Palmer)

Confined Space Entry/011	
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Confined Space Entry/011	
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	Degree
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Satori Group Inc (Anchorage)

Confined Space Entry	Certificate
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	Degree
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Southwest Alaska Vocational and Education Center (Igiugig)

Mariners Learning System USCG Testing	
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Masters 25/50/100 Ton Training Leading to USCG License	
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Restricted Operator of Uninspected Passenger Vessel (ROUPV)	
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	Degree
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University of Alaska, Mining and Petroleum Training Service (Soldotna)

Confined Space Entry	
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