

Electricians (47-2111)

Occupation description: Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. Excludes Security and Fire Alarm Systems Installers (49-2098).

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	1,958	2,002	2.2	69	147	220
United States	666,900	726,500	8.9	24,300	51,800	82,060

Job outlook

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

2019 Wages ?

	Mean Wage	Wage by Percentile				
	Mean	10th	25th	Median	75th	90th
United States	29.02	16.06	20.28	27.01	35.55	46.43
Alaska	36.23	21.53	31.30	37.35	43.64	48.31
Anchorage/Mat-Su Area	35.46	19.10	30.17	37.18	43.47	47.77
Fairbanks North Star Borough	36.25	24.17	32.64	37.32	42.69	47.08
Balance of State	37.60	24.02	32.34	37.61	44.51	50.79

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
2,624	665	25.3	37.4	28.5

2016 Potential Supply

Qualified but working in another occupation	364
Currently employed in a lower paid occupation	212
UI claimants previously working in occupation	764

2016 ALEXsys Employment Data

Number of registrants	1,015
Number of job position postings	79
Ratio of registrants to job position postings	12.8

Alaska Licensing Information

Electrical Administrator – [View licensing requirements and number licensed](#)
 Electrical Worker – [View licensing requirements and number licensed](#)

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

Education: High school diploma or equivalent

Work experience: None

On-the-job training: Apprenticeship

Training Resources

	Degree
Construction Technology	
ABC of Alaska (Anchorage)	
Electrical Hazards	
Electrician Apprenticeship	
Fall Protection	
Fire Detection and Protection	
Fire Prevention	
Hazard Communication	
Hazard Recognition Training, 16-Hour EM 385-1-1	
Hazard Recognition Training, 40-Hour EM 385-1-1	
Health Hazards in Construction	
Introduction to OSHA - Construction	
Introduction to OSHA - General Industry	
Lockout and Tagout	
Machine Guarding	
OSHA 10-Hour Outreach for Construction	
OSHA 10-Hour Outreach for General Industry	
OSHA 30-Hour Outreach for Construction	
OSHA 30-Hour Outreach for General Industry	
Personal Protective Equipment	
Safety Programs and Subpart C	
Scaffolds	
Stairways and Ladders	
Walking and Working Surfaces	

	Degree
Alaska Carpenters Training Trust (Anchorage)	
Scaffold Erector	
	Degree
Alaska Job Corps (Palmer)	
Pre-Apprentice Electrician	
	Degree
Alaska Joint Electrical Apprenticeship and Training Trust (Anchorage)	
Inside Wireman	Certificate
	Degree
Alaska Teamster-Employer Service Training Trust (Anchorage)	
OSHA 10 Hour General Construction	
OSHA 30 Hour General Construction	
	Degree
Alaska Technical Center (Kotzebue)	
Construction Trades	
Construction Trades/Plumbing Systems/Electrical Systems	
NCCER Core Curriculum	
	Degree
Alaska West Training Center (Fairbanks)	
Fall Protection - S08	
	Degree
Alaska Works (Anchorage)	
Pipeline Training	
	Degree
American Health and Safety, LLC (Fairbanks)	
Fall Protection	
OSHA 10 Hours	
OSHA 30 Hours	
	Degree
AVTEC (Seward)	
Industrial Electricity	Certificate
	Degree

Beacon Occupational Health and Safety Services (Anchorage)

Energy Isolation (NSTC and OSHA Offered)	
Fall Protection (NSTC and OSHA Offered)	

Degree

Center for Employment Education (Anchorage)

OSHA 10 hour	
OSHA 30 hour	

Degree

Environmental Management Inc (Anchorage)

OSHA 10/30 Hour General Industry	
OSHA Construction Outreach - 10 Hours	Certificate
OSHA Construction Outreach - 30 Hours	Certificate
OSHA General Industry Outreach - 30 Hours	Certificate
Scaffold Safety and Fall Protection	Certificate
Trenching, Excavating & Shoring	Certificate

Degree

Iisagvik College (Barrow)

Electrical I	Endorsement
Scaffolding I	Endorsement

Degree

Northern Industrial Training (Palmer)

Energy Isolation-Lockout/Tag Out/018	
Fall Protection Authorized User	
OSHA 10 Hour Construction / 020 Training	
OSHA 10 Hour General Industry / 021	
OSHA 30 Hour Construction / 022	
OSHA 30 Hour General Industry / 023	

Degree

Partners for Progress in Delta, Inc (Delta Junction)

Electrical Training	
---------------------	--

Degree

Satori Group Inc (Anchorage)

Fall Protection	
OSHA Outreach Training, 10 Hour	Certificate
OSHA Outreach Training, 30 Hour	Certificate

Trenching and Excavation Competent Person Training	Certificate
--	-------------

	Degree
--	---------------

TSS - The Safety Specialists (Ketchikan)

OSHA Compliance Training	
--------------------------	--

	Degree
--	---------------

University of Alaska Anchorage (Anchorage)

Electrical	OEC
------------	-----

	Degree
--	---------------

Wisdom & Associates, Inc. (Kenai)

Energy Efficient Retrofits of Existing Buildings (Module 9) - AHFC Sponsored	
--	--

Lighting Retrofit Fundamentals	
--------------------------------	--

Lighting Retrofit Fundamentals - AHFC Sponsored	
---	--

Residential Lighting & Efficiency	
-----------------------------------	--

Department of Labor and Workforce Development, Research and Analysis Section
P.O. Box 115501
Juneau, Alaska 99811-5501
Phone: 907.465.4500, Fax: 907.523.9654
September 21, 2020