

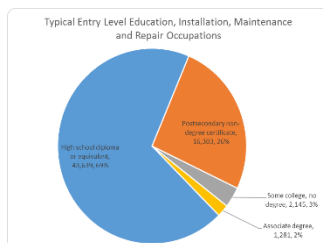
**Career Pathways
Core Business Group
Installation, Maintenance and Repair Occupations**

All industries are made up of three groups of people:

- The **core business group**, which produce the goods or provide the services
- The **business operations group**, which is charged with advertising, marketing, budgeting and sales
- The **administration & support** group, which performs tasks that support the core and business operations groups

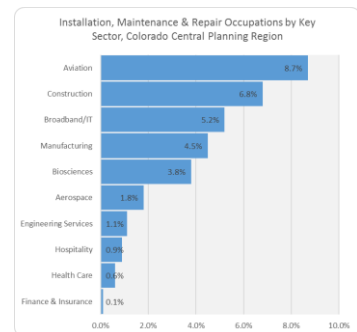
Employment by Occupational Grouping, Colorado Central Planning Region					
SOC	Description	2015 Jobs	2020 Jobs	Change	Percent Change
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	4,576	4,893	317	6.9%
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	9,002	9,416	414	4.6%
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	19,626	20,501	875	4.5%
49-9000	Other Installation, Maintenance, and Repair Occupations	31,663	34,595	2,932	9.3%

Source: EMSI 2015.3 QCEW, Non-QCEW & Self-Employed Class of Worker



Installation, maintenance and repair occupations make up just over 3.5% of the jobs in Colorado’s Central Planning Region, which includes greater metro Denver, Boulder and Larimer counties.

The pie chart shows that these jobs do not require much schooling, and yet many persons employed in this occupational group have critical skills needed by primary industries in the region.



With an overall median wage over \$22 per hour, installation, maintenance and repair occupations offer a great deal of opportunity with little formal training. The bar graph to the right shows that these occupations are represented in all of the region’s key industry groups, and make up substantial portions of the total employment in at least five of the sectors.

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Installation, Maintenance and Repair Occupations, Denver-Aurora-Lakewood MSA, Boulder & Larimer Counties						
SOC	Description	2016 Jobs	2020 Jobs	2016 - 2020 Change	2016 - 2020 % Change	Typical Entry Level Education
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	4,796	5,099	303	6.3%	High school diploma or equivalent
49-2011	Computer, Automated Teller, and Office Machine Repairers	2,074	2,204	130	6.3%	Some college, no degree
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairs	279	274	(5)	(1.8%)	Associate's degree
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	3,585	3,641	56	1.6%	Postsecondary nondegree award
49-2091	Avionics Technicians	148	156	8	5.4%	Associate's degree
49-2092	Electric Motor, Power Tool, and Related Repairers	326	344	18	5.5%	Postsecondary nondegree award
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	149	157	8	5.4%	Postsecondary nondegree award
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,173	1,220	47	4.0%	Postsecondary nondegree award
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	154	159	5	3.2%	Postsecondary nondegree award
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	188	159	(29)	(15.4%)	Postsecondary nondegree award
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	303	314	11	3.6%	Postsecondary nondegree award
49-2098	Security and Fire Alarm Systems Installers	1,187	1,293	106	8.9%	High school diploma or equivalent
49-3011	Aircraft Mechanics and Service Technicians	1,349	1,425	76	5.6%	Postsecondary nondegree award
49-3021	Automotive Body and Related Repairers	1,881	1,920	39	2.1%	High school diploma or equivalent
49-3022	Automotive Glass Installers and Repairers	385	391	6	1.6%	High school diploma or equivalent
49-3023	Automotive Service Technicians and Mechanics	8,876	9,042	166	1.9%	Postsecondary nondegree award
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,390	3,647	257	7.6%	High school diploma or equivalent
49-3041	Farm Equipment Mechanics and Service Technicians	61	70	9	14.8%	High school diploma or equivalent
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,783	1,880	97	5.4%	High school diploma or equivalent
49-3043	Rail Car Repairers	178	185	7	3.9%	High school diploma or equivalent
49-3051	Motorboat Mechanics and Service Technicians	165	180	15	9.1%	High school diploma or equivalent
49-3052	Motorcycle Mechanics	200	210	10	5.0%	Postsecondary nondegree award
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	365	381	16	4.4%	High school diploma or equivalent
49-3091	Bicycle Repairers	502	544	42	8.4%	High school diploma or equivalent
49-3092	Recreational Vehicle Service Technicians	260	265	5	1.9%	High school diploma or equivalent
49-3093	Tire Repairers and Changers	948	991	43	4.5%	High school diploma or equivalent
49-9011	Mechanical Door Repairers	445	456	11	2.5%	High school diploma or equivalent
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	876	910	34	3.9%	High school diploma or equivalent
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,198	4,551	353	8.4%	Postsecondary nondegree award
49-9031	Home Appliance Repairers	522	535	13	2.5%	High school diploma or equivalent
49-9041	Industrial Machinery Mechanics	3,944	4,410	466	11.8%	High school diploma or equivalent
49-9043	Maintenance Workers, Machinery	523	580	57	10.9%	High school diploma or equivalent
49-9044	Millwrights	239	270	31	13.0%	High school diploma or equivalent
49-9045	Refractory Materials Repairers, Except Brickmasons	16	16	0	0.0%	High school diploma or equivalent
49-9051	Electrical Power-Line Installers and Repairers	1,603	1,758	155	9.7%	High school diploma or equivalent
49-9052	Telecommunications Line Installers and Repairers	1,180	1,271	91	7.7%	High school diploma or equivalent
49-9061	Camera and Photographic Equipment Repairers	60	61	1	1.7%	Associate's degree
49-9062	Medical Equipment Repairers	793	836	43	5.4%	Associate's degree
49-9063	Musical Instrument Repairers and Tuners	164	173	9	5.5%	High school diploma or equivalent
49-9064	Watch Repairers	91	91	0	0.0%	High school diploma or equivalent
49-9069	Precision Instrument and Equipment Repairers, All Other	74	80	6	8.1%	High school diploma or equivalent
49-9071	Maintenance and Repair Workers, General	14,362	15,418	1,056	7.4%	High school diploma or equivalent
49-9081	Wind Turbine Service Technicians	71	95	24	33.8%	Some college, no degree
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	325	310	(15)	(4.6%)	High school diploma or equivalent
49-9092	Commercial Divers	80	89	9	11.3%	Postsecondary nondegree award
49-9093	Fabric Menders, Except Garment	<10	<10	Insf. Data	Insf. Data	No formal educational credential
49-9094	Locksmiths and Safe Repairers	232	222	(10)	(4.3%)	High school diploma or equivalent
49-9095	Manufactured Building and Mobile Home Installers	67	59	(8)	(11.9%)	High school diploma or equivalent
49-9096	Riggers	75	90	15	20.0%	High school diploma or equivalent
49-9097	Signal and Track Switch Repairers	56	59	3	5.4%	High school diploma or equivalent
49-9098	Helpers--Installation, Maintenance, and Repair Workers	680	767	87	12.8%	High school diploma or equivalent
49-9099	Installation, Maintenance, and Repair Workers, All Other	2,266	2,400	134	5.9%	High school diploma or equivalent
	Totals	67,652	71,664	4,012	5.9%	

Source: EMSI 2016.2 QCEW, Non-QCEW & Self-Employed Class of Worker

Installation, maintenance and repair occupations are in steady demand throughout the region, and employment in these occupations is expected to grow nearly 6% over the next five years.

How can I learn more about installation, maintenance & repair career pathways?

Use the table below to access information on job descriptions, local wage information, training programs, credentials and apprenticeship opportunities. Simply click on each link for the information you need.

Occupation Information	Local Wage	Job Postings	Training Opportunities	Credentials	Apprenticeship Opportunities
First-Line Supervisors of Mechanics, Installers & Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Computer, Automated Teller & Office Machine Repairer	Wage	Jobs	Training	Credential	Apprenticeship
Radio, Cellular & Tower Equipment Installers & Repairers, Except Line Installers	Wage	Jobs	Training	Credential	Apprenticeship
Telecommunications Equipment Installers & Repairers, Except Line Installers	Wage	Jobs	Training	Credential	Apprenticeship
Avionics Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Electric Motor, Power Tool, and Related Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Electrical and Electronics Installers and Repairers, Transportation Equipment	Wage	Jobs	Training	Credential	Apprenticeship
Electrical and Electronics Repairers, Commercial and Industrial Equipment	Wage	Jobs	Training	Credential	Apprenticeship
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Wage	Jobs	Training	Credential	Apprenticeship
Electronic Equipment Installers and Repairers, Motor Vehicles	Wage	Jobs	Training	Credential	Apprenticeship
Electronic Home Entertainment Equipment Installers and Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Security and Fire Alarm Systems Installers	Wage	Jobs	Training	Credential	Apprenticeship
Aircraft Mechanics and Service Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Automotive Body and Related Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Automotive Glass Installers and Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Automotive Service Technicians and Mechanics	Wage	Jobs	Training	Credential	Apprenticeship
Bus and Truck Mechanics and Diesel Engine Specialists	Wage	Jobs	Training	Credential	Apprenticeship
Farm Equipment Mechanics and Service Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Mobile Heavy Equipment Mechanics, Except Engines	Wage	Jobs	Training	Credential	Apprenticeship
Rail Car Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Motorboat Mechanics and Service Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Motorcycle Mechanics	Wage	Jobs	Training	Credential	Apprenticeship
Outdoor Power Equipment and Other Small Engine Mechanics	Wage	Jobs	Training	Credential	Apprenticeship
Bicycle Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Recreational Vehicle Service Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Tire Repairers and Changers	Wage	Jobs	Training	Credential	Apprenticeship
Mechanical Door Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Control and Valve Installers and Repairers, Except Mechanical Door	Wage	Jobs	Training	Credential	Apprenticeship
Heating, Air Conditioning, and Refrigeration Mechanics & Installers	Wage	Jobs	Training	Credential	Apprenticeship
Home Appliance Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Industrial Machinery Mechanics	Wage	Jobs	Training	Credential	Apprenticeship
Maintenance Workers, Machinery	Wage	Jobs	Training	Credential	Apprenticeship
Millwrights	Wage	Jobs	Training	Credential	Apprenticeship
Refractory Materials Repairers, Except Brickmasons	Wage	Jobs	Training	Credential	Apprenticeship
Electrical Power-Line Installers and Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Telecommunications Line Installers and Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Camera and Photographic Equipment Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Medical Equipment Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Musical Instrument Repairers and Tuners	Wage	Jobs	Training	Credential	Apprenticeship
Watch Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Precision Instrument and Equipment Repairers, All Other	Wage	Jobs	Training	Credential	Apprenticeship

Occupation Information	Local Wage	Job Postings	Training Opportunities	Credentials	Apprenticeship Opportunities
Maintenance and Repair Workers, General	Wage	Jobs	Training	Credential	Apprenticeship
Wind Turbine and Service Technicians	Wage	Jobs	Training	Credential	Apprenticeship
Coin, Vending, and Amusement Machine Servicers and Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Commercial Divers	Wage	Jobs	Training	Credential	Apprenticeship
Fabric Menders, Except Garment	Wage	Jobs	Training	Credential	Apprenticeship
Locksmiths and Safe Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Manufactured Building and Mobile Home Installers	Wage	Jobs	Training	Credential	Apprenticeship
Riggers	Wage	Jobs	Training	Credential	Apprenticeship
Signal and Track Switch Repairers	Wage	Jobs	Training	Credential	Apprenticeship
Helpers-Installation, Maintenance, and Repair Workers	Wage	Jobs	Training	Credential	Apprenticeship
Installation, Maintenance, and Repair Workers, All Other	Wage	Jobs	Training	Credential	Apprenticeship