

Electrical Specialist

Sample Military Occupational Classifications

- 54231 - Electric Power Line Specialist (Air Force)
- 21R - Interior Electrician (Army)
- 270 - Electrician's Mate (Coast Guard)
- 1142 - Electrical Equipment Repair Specialist (Marines)

This packet is designed for men and women in Electrical Specialist positions leaving the military and entering into civilian occupations. It identifies and describes the current military occupation, and profiles five related civilian occupations that share many of the same skill requirements. These five related occupations are examples and individuals may have skills and interests that would qualify them for many other jobs.

These profiles can be used to:

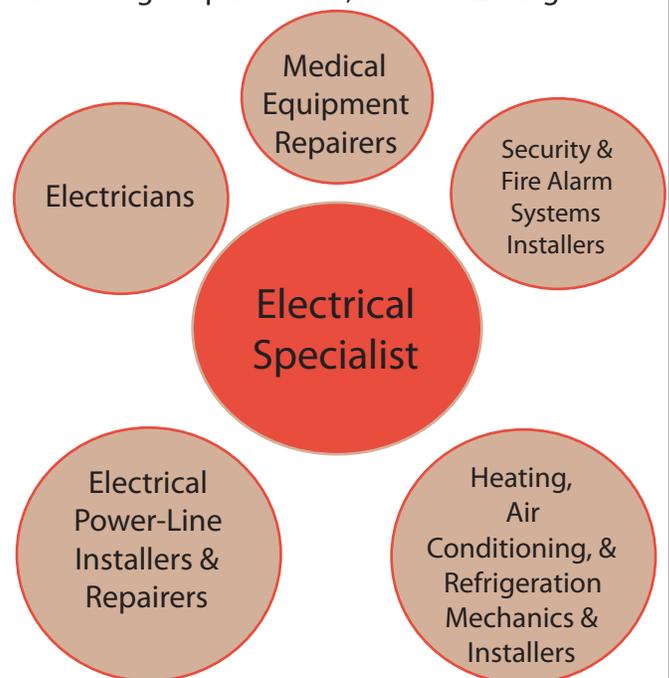
- Prepare for resume writing and job interviews.
- Help make training decisions.
- Explore new career options in occupations that require many of the same skills.

Each Occupation Profile contains the following information:

- Profile of current military occupation, with Top 6 important Duties and Top 3 pertinent Knowledges, Skills, Abilities, and Work Activities.
- Profiles of the most closely related civilian occupations identified, with Top 5 important Tasks; Top 3 pertinent Knowledges, Skills, Abilities, and Work Activities; Labor Market Information; Education and Training Requirements; and Job Listings in your area.

Each information packet is designed to answer questions like "how much can I expect to earn on this job?" and "what's the outlook for this type of work in the next ten years?"

Labor Market Information Division
Workforce Services Branch
Employment Development Department



Electrical Specialist, cont.

Description

Repair electric motors, electronic modules, motor control circuits, operate and repair mobile electric power generators, troubleshooting equipment electrical circuits, and repair electrical systems on all engineering equipment. Repairs include soldering connections and replacing wires, malfunctioning apparatus, and components, including some faulty mechanical, hydraulic and pneumatic parts on equipment. These technicians also troubleshoot digital/logic components/circuits and make organizational and intermediate level repairs on the electrical systems of engineer and general supply equipment.

Important Duties

- Diagnose electrical problems.
- Make repairs following manuals, schematic diagrams, blue prints, and other specifications using hand tools, power tools, and electrical and electronic test equipment.
- Measure velocity, horsepower, revolutions per minute (rpm), amperage, circuitry, and voltage of units or parts to diagnose problems, using ammeters, voltmeters, wattmeters, and other testing devices.
- Inspect electrical connections, wiring, relays, charging resistance boxes, and storage batteries, following wiring diagrams.
- Repair and adjust equipment, machines, and defective components, replacing worn parts such as gaskets and seals in watertight electrical equipment.
- Read blueprints, wiring diagrams, schematic drawings, and engineering instructions for assembling electronics units, applying knowledge of electronic theory and components.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Skills
Mechanical	Repairing
Engineering and Technology	Troubleshooting
Computers and Electronics	Quality Control Analysis
Abilities	Work Activities
Finger Dexterity	Repairing and Maintaining Electronic Equipment
Manual Dexterity	Making Decisions and Solving Problems
Problem Sensitivity	Getting Information

Source: Occupational Information Network ([O*NET](#))

Electrical Power-Line Installers and Repairers

Description

Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.

Sample Job Titles

Lineman, Journeyman Lineman, Electrical Lineworker, Lineworker, Power Lineman

Important Tasks

- Adhere to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas.
- Open switches or attach grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs.
- Climb poles or use truck-mounted buckets to access equipment.
- Place insulating or fireproofing materials over conductors and joints.
- Install, maintain, and repair electrical distribution and transmission systems, including conduits, cables, wires, and related equipment, such as transformers, circuit breakers, and switches.

Job Fit

The job of Electrical-Power Line Installers and Repairer may appeal to those who enjoy working on projects that require practical, hands-on problems and solutions. This occupation may interest those who are attentive to detail and thorough in completing work tasks. In addition, those who like being outside, working closely with others in a team may enjoy this occupation.

Education and Training Requirements

Typical Education Level: High school diploma or the equivalent and long-term on-the-job training. This is an occupation in which workers can develop skills needed to attain competency after a period of 12 months or more of combined on-the-job experience and informal training.

Certification: Link to America's Career InfoNet Certification Finder at www.careerinfonet.org and type in the keywords "electrical power line installer" to find certification programs related to this occupation.

Electrical Power-Line Installers and Repairers, cont.

2013 Median Wages

	Hourly	Annual
California	\$45.05	\$93,709
Los Angeles-Long Beach-Glendale MD	\$44.53	\$92,613
Oxnard-Thousand Oaks-Ventura MSA	\$47.20	\$98,173

Source: [Occupational Employment Statistics Survey 2013 1st Q](#)

Projections of Employment - California Long-Term

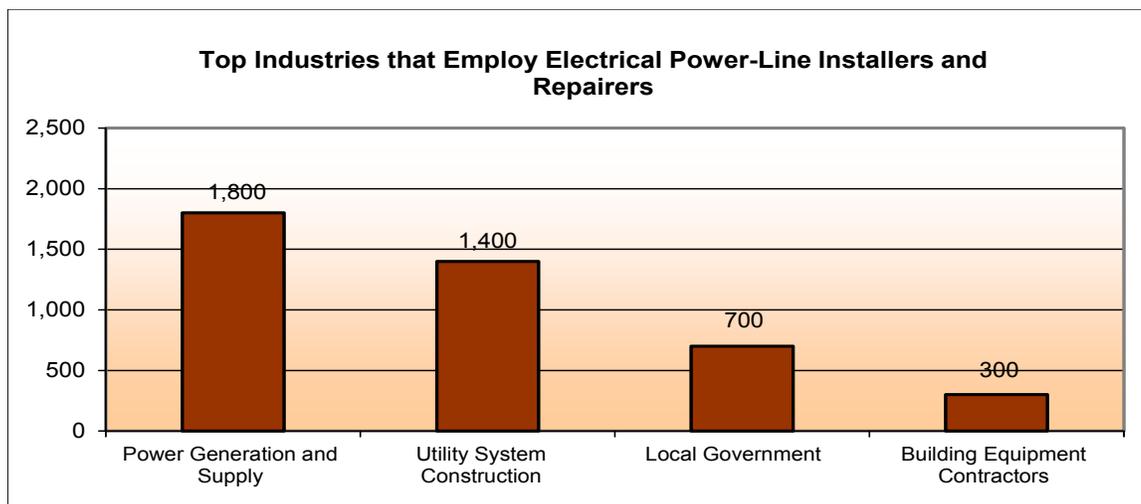
Est. # of Workers (2010-2020)		Numeric Change	Percent Change	Average Annual Job Openings
6,400	7,600	1,200	18.8	350

Projections of Employment - California Short-Term

Est. # of Workers (2012-2014)		Numeric Change	Percent Change	Average Annual Job Openings
6,800	7,200	400	5.9	390

Source: [EDD/LMID Projections of Employment by Occupation](#)

Top Industries that Employ this Occupation



Source: [CA Staffing Patterns](#)

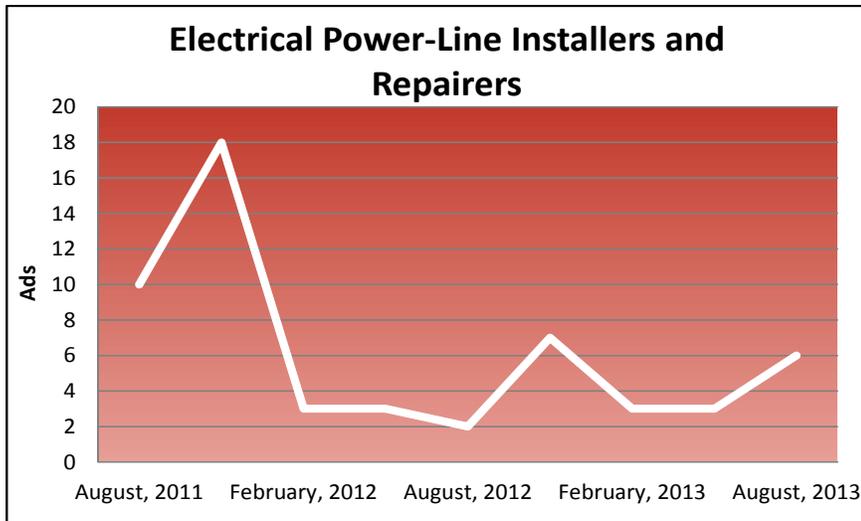
Electrical Power-Line Installers and Repairers, cont.

Recent Job Openings for this Occupation

Month	Total Job Listings	Sample of Employers
July 2013	5	<ul style="list-style-type: none"> • United Site Services • National Construction Rentals
August 2013	5	<ul style="list-style-type: none"> • United Site Services • National Construction Rentals
September 2013	5	<ul style="list-style-type: none"> • National Construction Rentals • Los Angeles County Metro Transportation Authority

Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional 2-Year Online Job Ad Trend for this Occupation



Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional Supply and Demand for this Occupation

Estimated Candidate Supply	1,700
Employers Hiring	2
# of Employers Who Have Hired in the Past Four Years	28
Average Posting Period	45 days

Source: [WANTED Analytics](#): Date accessed 9/30/13

Electrical Power-Line Installers and Repairers, cont.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Description
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Mechanical	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
Building and Construction	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
Skill	Description
Active Listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
Monitoring	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
Critical Thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
Ability	Description
Near Vision	The ability to see details at close range (within a few feet of the observer).
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
Work Activity	Description
Handling and Moving Objects	Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
Operating Vehicles, Mechanized Devices, or Equipment	Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
Controlling Machines and Processes	Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).

Source: Occupational Information Network ([O*NET](#))

Electricians

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.

Sample Job Titles

Maintenance Electrician, Journeyman Electrician, Inside Wireman, Control Electrician, Electrician Technician, Industrial Electrician, Journeyman Wireman

Important Tasks

- Maintain current electrician's license or identification card to meet government regulations.
- Connect wires to circuit breakers, transformers, or other components.
- Repair or replace wiring, equipment, and fixtures, using hand tools and power tools.
- Assemble, install, test, and maintain electrical or electronic wiring, equipment, appliances, apparatus, and fixtures, using hand and power tools.
- Test electrical systems and continuity of circuits in electrical wiring, equipment, and fixtures, using testing devices such as ohmmeters, voltmeters, and oscilloscopes, to ensure compatibility and safety of system.

Job Fit

The job of Electrician may appeal to those who enjoy activities that involve practical, hands-on problems and solutions. Electrician occupations usually involve technical or mechanical activities.

Education and Training Requirements

Typical Education Level: High school diploma or the equivalent and an apprenticeship. This is an occupation in which workers can develop skills needed to attain competency after a period of between three to five years of occupation-specific technical instruction and on-the-job training.

Certification: California requires certification for Electricians that work for general electrical contractors. Link to America's Career InfoNet Certification Finder at www.careerinfonet.org and type in the keyword "electrician" to find more certification programs related to this occupation.

Electricians, cont.

2013 Median Wages

	Hourly	Annual
California	\$29.72	\$61,807
Los Angeles-Long Beach-Glendale MD	\$31.75	\$66,044
Oxnard-Thousand Oaks-Ventura MSA	\$29.98	\$62,372

Source: [Occupational Employment Statistics Survey 2013 1st Q](#)

Projections of Employment - California Long-Term

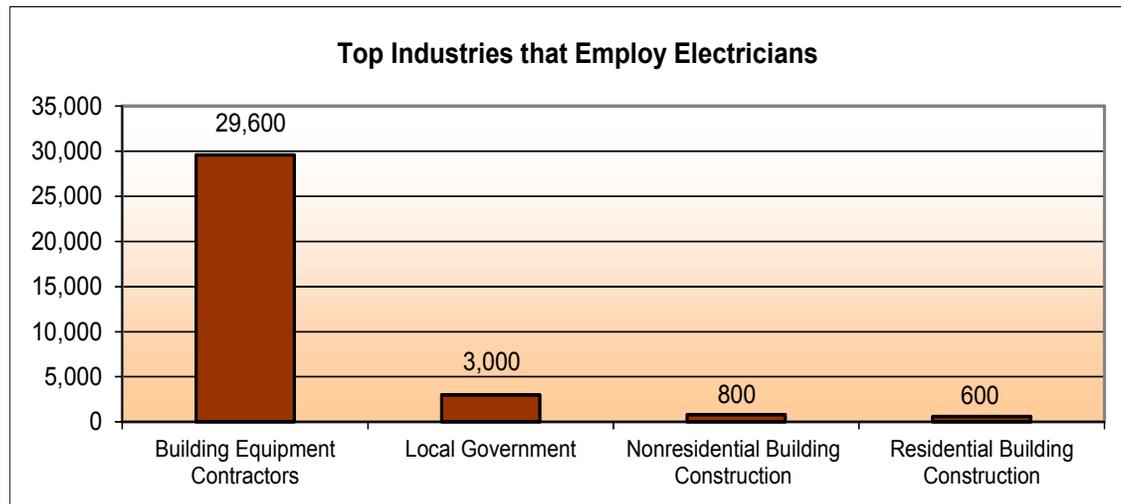
Est. # of Workers (2010-2020)		Numeric Change	Percent Change	Average Annual Job Openings
47,200	54,600	7,400	15.7	2,010

Projections of Employment - California Short-Term

Est. # of Workers (2012-2014)		Numeric Change	Percent Change	Average Annual Job Openings
50,900	55,300	4,400	8.6	3,520

Source: [EDD/LMID Projections of Employment by Occupation](#)

Top Industries that Employ this Occupation



Source: [CA Staffing Patterns](#)

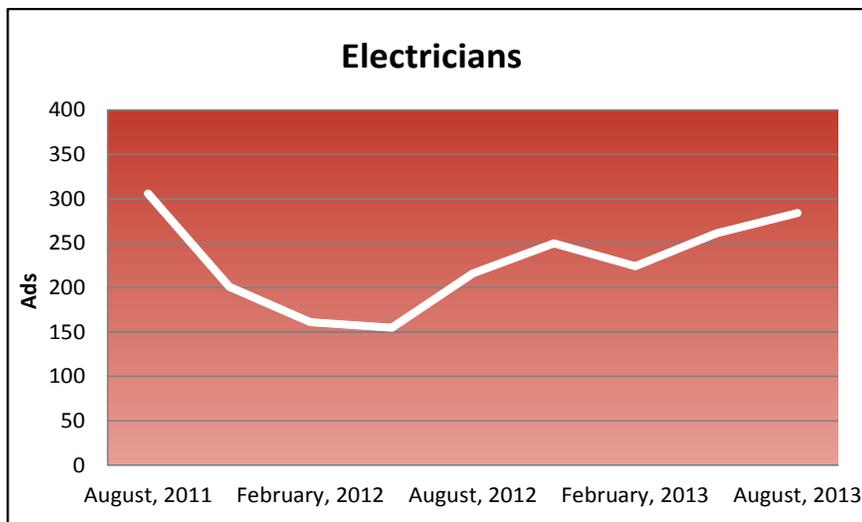
Electricians, cont.

Recent Job Openings for this Occupation

Month	Total Job Listings	Sample of Employers
July 2013	267	<ul style="list-style-type: none"> • United Site Services • National Construction Rentals
August 2013	283	<ul style="list-style-type: none"> • Verengo • Aerotek
September 2013	259	<ul style="list-style-type: none"> • Verengo • Aerotek

Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional 2-Year Online Job Ad Trend for this Occupation



Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional Supply and Demand for this Occupation

Estimated Candidate Supply	22,000
Employers Hiring	58
# of Employers Who Have Hired in the Past Four Years	400
Average Posting Period	41 days

Source: [WANTED Analytics](#): Date accessed: 9/30/13

Electricians, cont.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Description
Mechanical	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
Building and Construction	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
Mathematics	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
Skill	Description
Troubleshooting	Determining causes of operating errors and deciding what to do about it.
Repairing	Repairing machines or systems using the needed tools.
Active Listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
Ability	Description
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.
Work Activity	Description
Getting Information	Observing, receiving, and otherwise obtaining information from all relevant sources.
Inspecting Equipment, Structures, or Material	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
Making Decisions and Solving Problems	Analyzing information and evaluating results to choose the best solution and solve problems.

Source: Occupational Information Network ([O*NET](#))

Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Description

Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

Sample Job Titles

Service Technician, HVAC Service Technician, HVAC Installer, Refrigeration Mechanic, Refrigeration Technician, HVAC / R Technician

Important Tasks

- Observe and test system operation, using gauges and instruments.
- Test electrical circuits and components for continuity, using electrical test equipment.
- Test pipe or tubing joints and connections for leaks, using pressure gauge or soap-and-water solution.
- Join pipes or tubing to equipment and to fuel, water, or refrigerant source, to form complete circuit.
- Adjust valves according to specifications and charge system with proper type of refrigerant by pumping the specified gas or fluid into the system.

Job Fit

The job of Heating, Air Conditioning, and Refrigeration Mechanic and Installer will appeal to those who enjoy activities that involve practical, hands-on problems and solutions. This occupation involves technical or mechanical activities and often requires working outside.

Education and Training Requirements

Typical Education Level: Postsecondary non-degree award and long-term on-the-job training. This is an occupation in which workers can develop skills needed to attain competency after a period of 12 months or more of combined on-the-job experience and informal training.

Certification: Link to America's Career InfoNet Certification Finder at www.careerinfonet.org and type in the keyword "heating" to find certification programs related to this occupation.

Heating, Air Conditioning, and Refrigeration Mechanics and Installers, cont.

2013 Median Wages

	Hourly	Annual
California	\$24.71	\$51,386
Los Angeles-Long Beach-Glendale MD	\$28.85	\$53,762
Oxnard-Thousand Oaks-Ventura MSA	\$18.40	\$38,269

Source: [Occupational Employment Statistics Survey 2013 1st Q](#)

Projections of Employment - California Long-Term

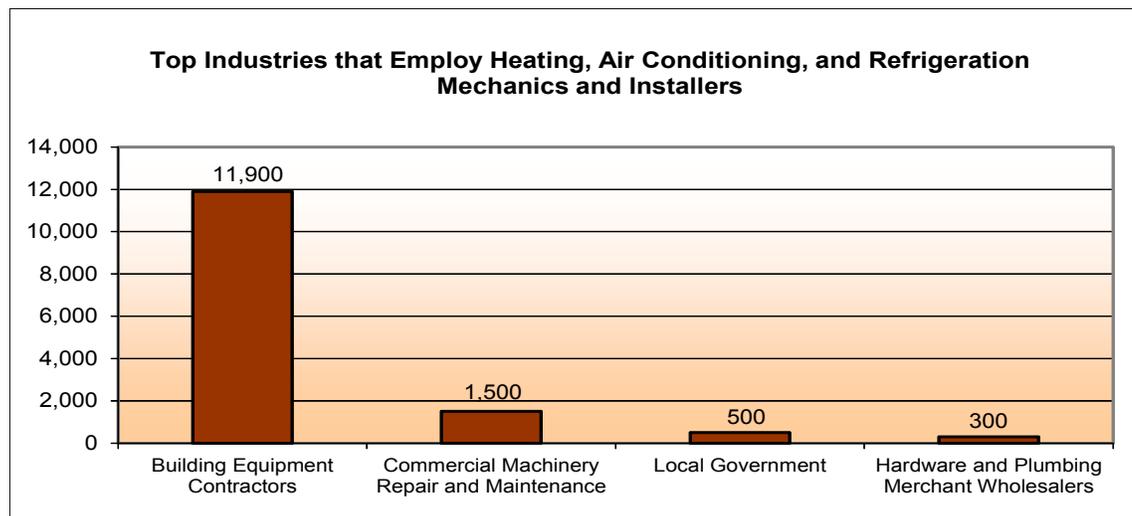
Est. # of Workers (2010-2020)		Numeric Change	Percent Change	Average Annual Job Openings
20,700	26,300	5,600	27.1	920

Projections of Employment - California Short-Term

Est. # of Workers (2012-2014)		Numeric Change	Percent Change	Average Annual Job Openings
22,300	24,000	1,700	7.6	1,240

Source: [EDD/LMID Projections of Employment by Occupation](#)

Top Industries that Employ this Occupation



Source: [CA Staffing Patterns](#)

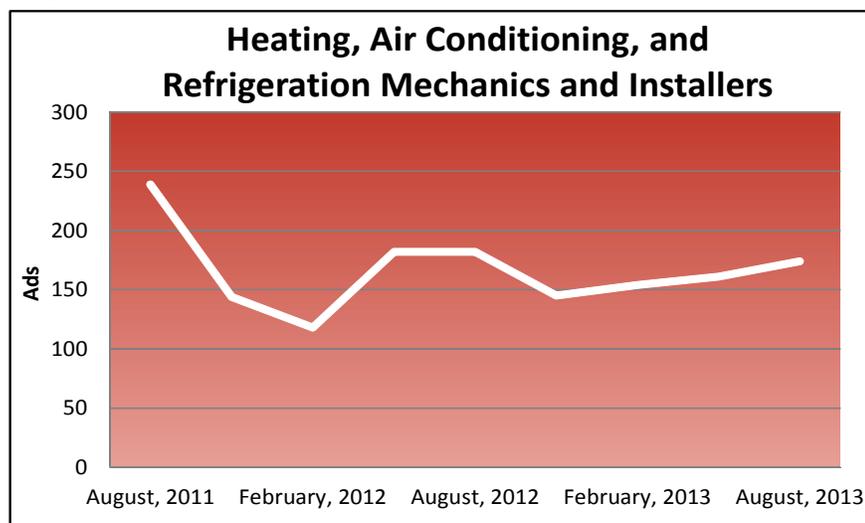
Heating, Air Conditioning, and Refrigeration Mechanics and Installers, cont.

Recent Job Openings for this Occupation

Month	Total Job Listings	Sample of Employers
July 2013	208	<ul style="list-style-type: none"> Johnson Controls, Inc. Sears Holding Corporation
August 2013	164	<ul style="list-style-type: none"> Johnson Controls, Inc. Sears Holding Corporation
September 2013	183	<ul style="list-style-type: none"> Verengo Aerotek

Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional 2-Year Online Job Ad Trend for this Occupation



Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional Supply and Demand for this Occupation

Estimated Candidate Supply	6,600
Employers Hiring	37
# of Employers Who Have Hired in the Past Four Years	369
Average Posting Period	44 days

Source: [WANTED Analytics](#); Date accessed 9/30/13

Heating, Air Conditioning, and Refrigeration Mechanics and Installers, cont.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Description
Mechanical	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Mathematics	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
Skill	Description
Installation	Installing equipment, machines, wiring, or programs to meet specifications.
Troubleshooting	Determining causes of operating errors and deciding what to do about it.
Repairing	Repairing machines or systems using the needed tools.
Ability	Description
Near Vision	The ability to see details at close range (within a few feet of the observer).
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
Work Activity	Description
Repairing and Maintaining Mechanical Equipment	Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
Performing General Physical Activities	Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
Making Decisions and Solving Problems	Analyzing information and evaluating results to choose the best solution and solve problems.

Source: Occupational Information Network ([O*NET](#))

Medical Equipment Repairers

Description

Test, adjust, or repair biomedical or electromedical equipment.

Sample Job Titles

Biomedical Equipment Technician (BMET), Biomedical Technician, Bio Medical Technician, Service Technician, Biomedical Electronics Technician, Biomedical Engineering Technician (BMET), Dental Equipment Technician, X-ray Service Engineer, Certified Biomedical Equipment Technician (CBET), Coil Repair Technician

Important Tasks

- Test and calibrate components and equipment following manufacturers' manuals and troubleshooting techniques, using hand tools, power tools and measuring devices.
- Keep records of maintenance, repair, and required updates of equipment.
- Inspect and test malfunctioning medical and related equipment following manufacturers' specifications, using test and analysis instruments.
- Disassemble malfunctioning equipment and remove, repair and replace defective parts such as motors, clutches or transformers.
- Perform preventive maintenance or service such as cleaning, lubricating and adjusting equipment.

Job Fit

The job of Medical Equipment Repairer may appeal to those who enjoy work activities that include practical, hands-on problems and solutions. This occupation also may appeal to those who like searching for facts and figuring out problems mentally.

Education and Training Requirements

Typical Education Level: Associate degree and moderate-term on-the-job training. This is an occupation in which workers can develop skills needed to attain competency after a period of between 1 and 12 months of combined on-the-job experience and informal training.

Certification: Link to America's Career InfoNet Certification Finder at www.careerinfonet.org and type in the keywords "medical equipment" to find certification programs related to this occupation.

Medical Equipment Repairers, cont.

2013 Median Wages

	Hourly	Annual
California	\$26.16	\$54,401
Los Angeles-Long Beach-Glendale MD	\$24.92	\$61,518
Oxnard-Thousand Oaks-Ventura MSA	\$20.18	\$41,988

Source: [Occupational Employment Statistics Survey 2013 1st Q](#)

Projections of Employment - California Long-Term

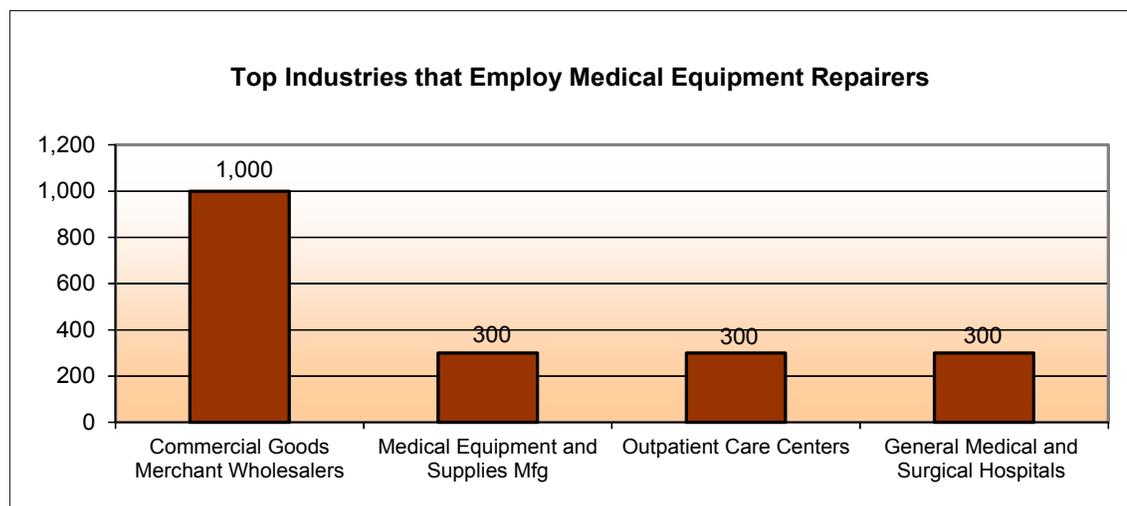
Est. # of Workers (2010-2020)	Numeric Change	Percent Change	Average Annual Job Openings	
3,500	4,600	1,100	31.4	210

Projections of Employment - California Short-Term

Est. # of Workers (2012-2014)	Numeric Change	Percent Change	Average Annual Job Openings	
3,600	3,700	100	2.8	140

Source: [EDD/LMID Projections of Employment by Occupation](#)

Top Industries that Employ this Occupation



Source: [CA Staffing Patterns](#)

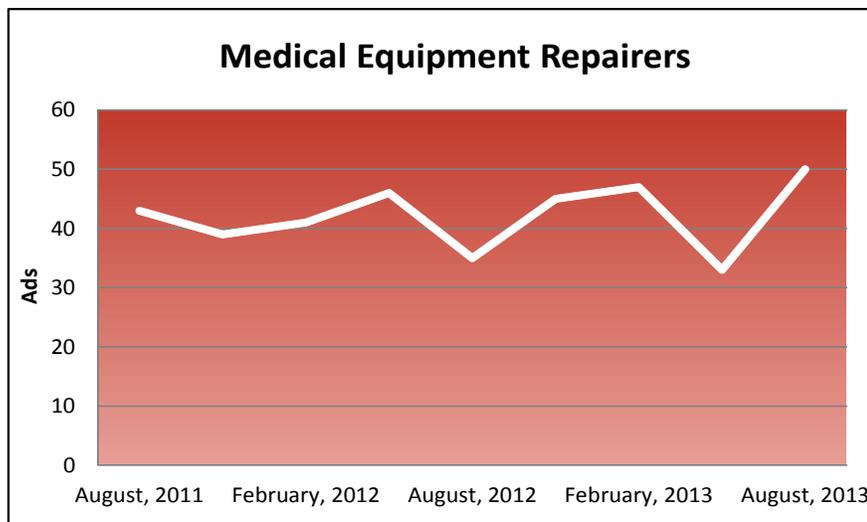
Medical Equipment Repairers, cont.

Recent Job Openings for this Occupation

Month	Total Job Listings	Sample of Employers
July 2013	42	<ul style="list-style-type: none"> Fresenius Medical Care DaVita, Inc.
August 2013	52	<ul style="list-style-type: none"> Fresenius Medical Care Providence Health & Services
September 2013	39	<ul style="list-style-type: none"> General Electric Recruit Arrow

Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional 2-Year Online Job Ad Trend for this Occupation



Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional Supply and Demand for this Occupation

Estimated Candidate Supply	1,100
Employers Hiring	19
# of Employers Who Have Hired in the Past Four Years	170
Average Posting Period	46 days

Source: [WANTED Analytics: Date accessed 9/30/13](#)

Medical Equipment Repairers, cont.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Description
Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
Engineering and Technology	Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Skill	Description
Equipment Maintenance	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
Repairing	Repairing machines or systems using the needed tools.
Troubleshooting	Determining causes of operating errors and deciding what to do about it.
Ability	Description
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
Work Activity	Description
Repairing and Maintaining Electronic Equipment	Servicing, repairing, calibrating, regulating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.
Repairing and Maintaining Mechanical Equipment	Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
Inspecting Equipment, Structures, or Material	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.

Source: Occupational Information Network ([O*NET](#))

Security and Fire Alarm Systems Installers

Description

Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.

Sample Job Titles

Alarm Technician, Service Technician, Installation Technician, Fire Alarm Technician, Security Technician, Security Installer, Electronic Security Technician, Fire and Sound Service Technician, Home Security Alarm Installer, Low Voltage Technician

Important Tasks

- Examine systems to locate problems such as loose connections or broken insulation.
- Test backup batteries, keypad programming, sirens, and all security features in order to ensure proper functioning, and to diagnose malfunctions.
- Mount and fasten control panels, door and window contacts, sensors, and video cameras, and attach electrical and telephone wiring in order to connect components.
- Install, maintain, or repair security systems, alarm devices, and related equipment, following blueprints of electrical layouts and building plans.
- Feed cables through access holes, roof spaces, and cavity walls to reach fixture outlets; then position and terminate cables, wires and strapping.

Job Fit

The job of Security and Fire Alarm Systems Installer may appeal to those who enjoy work activities that include practical, hands-on problems and solutions. This occupation also may appeal to those who like following set procedures and routines.

Education and Training Requirements

Typical Education Level: High school diploma or the equivalent and moderate-term on-the-job training. This is an occupation in which workers can develop skills needed to attain competency after a period of between 1 and 12 months of combined on-the-job experience and informal training.

Certification: Link to America's Career InfoNet Certification Finder at www.careerinfonet.org and type in the keywords "alarm installer" to find certification programs related to this occupation.

Security and Fire Alarm Systems Installers, cont.

2013 Median Wages

	Hourly	Annual
California	\$21.25	\$44,192
Los Angeles-Long Beach-Glendale MD	\$21.04	\$43,750
Oxnard-Thousand Oaks-Ventura MSA	\$19.03	\$39,571

Source: [Occupational Employment Statistics Survey 2013 1st Q](#)

Projections of Employment - California Long-Term

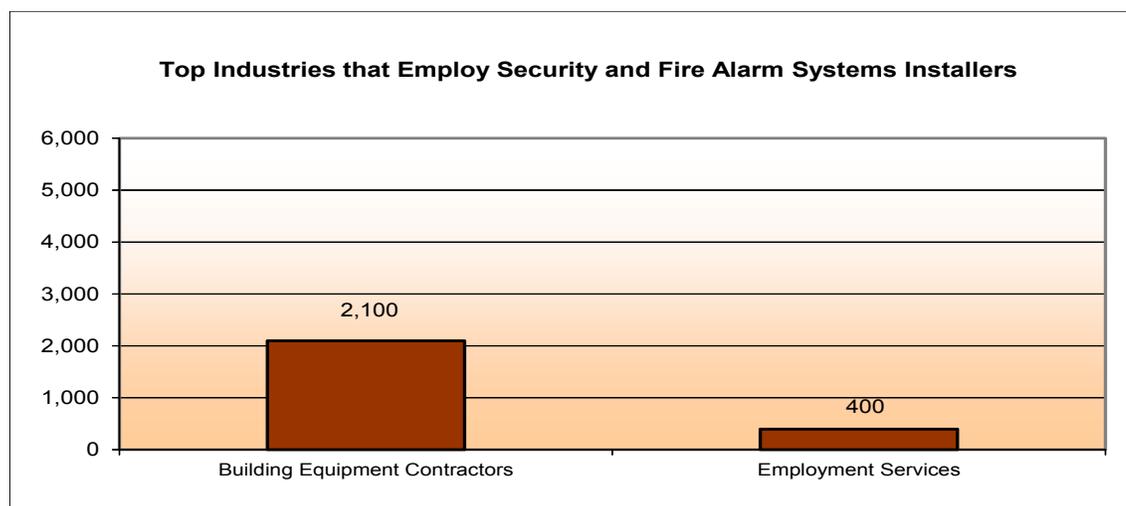
Est. # of Workers (2010-2020)		Numeric Change	Percent Change	Average Annual Job Openings
6,800	8,700	1,900	27.9	360

Projections of Employment - California Short-Term

Est. # of Workers (2012-2014)		Numeric Change	Percent Change	Average Annual Job Openings
7,400	7,800	400	5.4	410

Source: [EDD/LMID Projections of Employment by Occupation](#)

Top Industries that Employ this Occupation



Source: [CA Staffing Patterns](#)

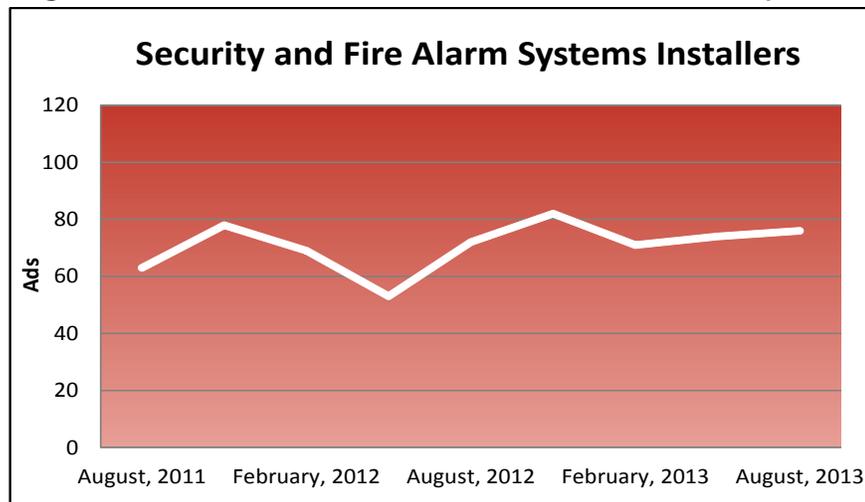
Security and Fire Alarm Systems Installers, cont.

Recent Job Openings for this Occupation

Month	Total Job Listings	Sample of Employers
July 2013	71	<ul style="list-style-type: none"> • ADT • SSD Systems
August 2013	99	<ul style="list-style-type: none"> • ADT • Teksystems
September 2013	69	<ul style="list-style-type: none"> • SSD Systems • ADT Security

Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional 2-Year Online Job Ad Trend for this Occupation



Source: [The Conference Board Help Wanted Online™ \(HWOL\) data series - Hiring Demand Dashboard](#)

Regional Supply and Demand for this Occupation

Estimated Candidate Supply	3,500
Employers Hiring	19
# of Employers Who Have Hired in the Past Four Years	119
Average Posting Period	41 days

Source: [WANTED Analytics](#); Date accessed 9/30/13

Security and Fire Alarm Systems Installers, cont.

Important Knowledge, Skills, Abilities, and Work Activities

Knowledge	Description
Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Public Safety and Security	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.
Skill	Description
Active Listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
Critical Thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
Operation Monitoring	Watching gauges, dials, or other indicators to make sure a machine is working properly.
Ability	Description
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
Near Vision	The ability to see details at close range (within a few feet of the observer).
Work Activity	Description
Getting Information	Observing, receiving, and otherwise obtaining information from all relevant sources.
Inspecting Equipment, Structures, or Material	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.

Source: Occupational Information Network ([O*NET](#))

