

Industrial and Commercial Refrigeration

Labor Market Brief for the Inland Empire/Desert Region (IEDR, Riverside and San Bernardino counties combined)

This workforce demand report uses state and federal job projection data developed before the economic impact of COVID-19. The COE is monitoring the situation and will provide more information as it becomes available. Please consult with local employers to understand their current employment needs.

Introduction

This report provides data on the occupation and program related to industrial and commercial refrigeration systems repair and maintenance. The occupation most closely aligned with this work is Heating, Air Conditioning, and Refrigeration Mechanics and Installers (SOC 49-9021). Definitions, alternative job titles, education, and training requirements for this occupation are displayed below:

Heating, Air Conditioning, and Refrigeration Mechanics and Installers (SOC 49-9021)

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

Sample job titles: HVAC/R Technician (Heating, Ventilation, Air Conditioning/Refrigeration Technician); HVAC Tech (Heating, Ventilation, Air Conditioning Service Technician); HVAC Technician (Heating, Ventilation, Air Conditioning Technician); HVAC/R Service Technician (Heating, Ventilation, and Air Conditioning/Refrigeration Service Technician); Refrigeration Mechanic; Refrigeration Technician (Refrigeration Tech); Transportation Refrigeration Technician

Entry-Level Educational Requirement: Postsecondary nondegree award

Training Requirement: More than twelve months of on-the-job training

Incumbent workers with a Community College Award or Some Postsecondary Coursework: 42%

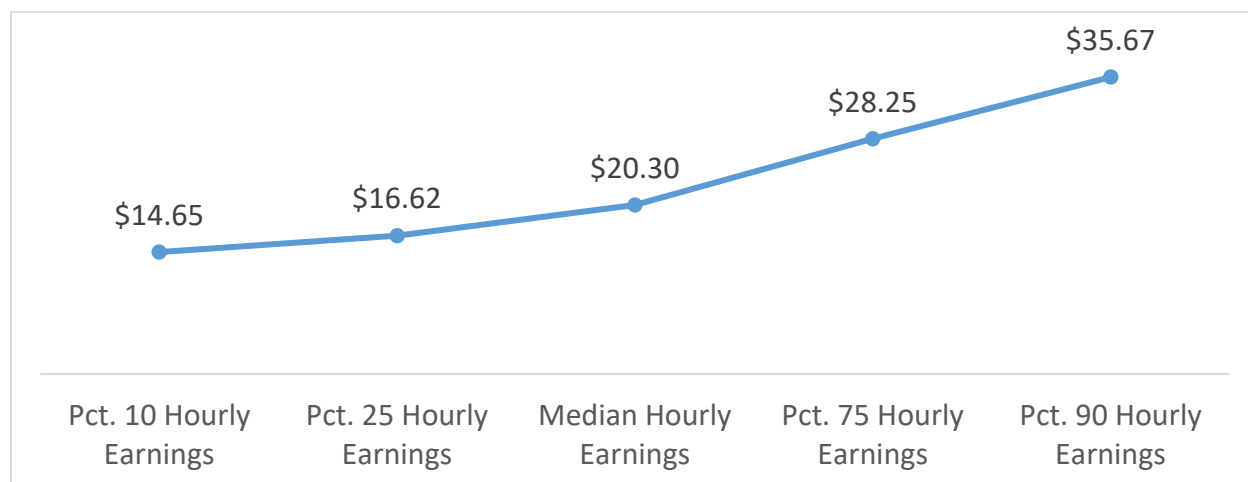
Employment

Heating, air conditioning and refrigeration mechanics and installers employment is expected to **increase by 14% between 2019 and 2024**. A total of **580 annual job openings** will be available each year over the five-year timeframe.

2019 Jobs	2024 Jobs	Change	% Change	Annual Job Openings
4,466	5,069	603	14%	580

Earnings

The median-level, 50th percentile, hourly wages for this occupation is \$20.30 per hour, above the regional \$19.94 per hour self-sustainable standard for a single adult with one child.



Employer Online Job Advertisements

The sections below provide online job advertisement analytics data for heating, air conditioning, and refrigeration mechanics and installers over the last 12 months, October 2019 to September 2020. Job posting from staffing companies were removed. A total of 396 unique online job ads were found for this occupation.

Companies: The companies posting the most online job postings over the last 12 months where:

Companies	Unique Job Ads
Redlands Plumbing Heating & Air Conditioning, Inc.	37
West County Heating & Air Conditioning	19
Action Air Conditioning & Heating, Inc.	16
Semper Solaris	12
Adr Air Conditioning	12
Sears Home Services	10
Sherlock Heating and Air Conditioning Inc.	10

The table below displays the most common skills requests from online job ads. Hard skills are specific, learnable, measurable, often industry- or occupation-specific abilities related to a position. Common skills can be self-taught and usually do not necessitate a certain completed level of education; they are

essential in many industries and occupations.

Hard Skills	Online Job Ad Count	% of Total Postings	Common Skills	Postings	% of Total Postings
HVAC	373	94%	Communication	170	43%
Ventilation	105	27%	Valid Driver's License	155	39%
Preventive Maintenance	59	15%	Customer Service	134	34%
Plumbing	57	14%	Troubleshooting (Problem Solving)	115	29%
Pumps	51	13%	Good Driving Record	114	29%
Customer Satisfaction	48	12%	Detail Oriented	44	11%
Furnaces	46	12%	Management	41	10%
Refrigerant	44	11%	Problem Solving	31	8%
Sheet Metal	41	10%	Operations	31	8%
Boilers	40	10%	Self-motivation	25	6%

Community College Program:

Community college Environmental Control Technology (HVAC) (TOP 0946.00) programs prepares students for employment through the assembly, installation, operation, maintenance, and repair of air conditioning, heating, and refrigeration systems (Taxonomy of Programs, 2012).

Colleges (Local Program Title)	Annual Average Awards (2016-19)
Chaffey (Heating, Ventilation, Air Conditioning, and Refrigeration Level I & Level II)	0
Desert (Air Conditioning and Refrigeration)	49
Riverside (Air Conditioning and Refrigeration)	42
San Bernardino (Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R))	15
Total	105



This labor market brief provides an occupational and community college program overview and is not intended for regional program recommendation or submission to the California Community Colleges Chancellor's Office.

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Sources

California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart. (2020). *Data Mart*. Retrieved from <https://datamart.cccco.edu/datamart.aspx>

California Community Colleges Chancellor's Office, Curriculum and Instructional Unit, Academic Affairs Division. (2012). *Taxonomy of Programs, 6th Edition, Corrected Version*. Retrieved from <https://www.cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-Infrastructure/Research/Files/TOPmanual6200909corrected12513.ashx?la=en&hash=94C709CA83C0380828415579395A5F536736C7C1>

Economic Modeling Specialists International (EMSI). (2020). *Datarun 2020.4*. Retrieved from <https://www.economicmodeling.com/>