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Refrigeration Mechanics and Installers Louisiana

Summary of Job Duties

Refrigeration Mechanics and Installers [Video](#) - Install and repair industrial and commercial refrigerating systems.

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Detailed Job Description

Refrigeration Mechanics and Installers HVACR technicians install, maintain, and repair heating, cooling, and refrigeration systems.

Heating, air conditioning, and refrigeration mechanics and installers—often called HVACR technicians—work on heating, ventilation, cooling, and refrigeration systems that control the temperature and air quality in buildings.

Duties

Heating, air conditioning, and refrigeration mechanics and installers typically do the following:

- Install, clean, and maintain HVACR systems
- Install electrical components and wiring
- Inspect and test HVACR systems and components
- Discuss system malfunctions with customers
- Repair or replace worn or defective parts
- Recommend maintenance to improve system performance
- Keep records of work performed

Heating and air conditioning systems control the temperature, humidity, and overall air quality in homes, businesses, and other buildings. By providing a climate-controlled environment, refrigeration systems make it possible to store and transport food, medicine, and other perishable items.

Some HVACR technicians specialize in one or more specific aspects of HVACR, such as radiant heating systems, solar panels, testing and balancing, or commercial refrigeration.

When installing or repairing air conditioning and refrigeration systems, technicians must follow government regulations regarding the conservation, recovery, and recycling of refrigerants. The regulations include those concerning the proper handling and disposal of fluids and pressurized gases.

Some HVACR technicians sell service contracts to their clients, providing periodic maintenance of heating and cooling systems. The service usually includes inspecting the system, cleaning ducts, replacing filters, and checking refrigerant levels.

Other workers sometimes help HVACR technicians install or repair cooling and heating systems. For example, on a large air conditioning installation job, especially one in which workers are covered by union contracts, ductwork may be installed by sheet metal workers, electrical work by electricians, and pipework by plumbers, pipefitters, and steamfitters. Boiler systems are sometimes installed by a boilermaker.

Home appliance repairers usually service window air conditioners and household refrigerators.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Job Zone



The section below shows the job zone information for Refrigeration Mechanics and Installers. Job Zone Three: Medium Preparation Needed.

Education	Experience	Training
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.	Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.	Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with these occupations.

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Jobs Available

This section shows the number of job openings advertised online in Louisiana for Refrigeration Mechanics and Installers and for the related occupational group of Installation, Maintenance, and Repair Occupations on November 23, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings
Refrigeration Mechanics and Installers  	<u>48</u>
Installation, Maintenance, and Repair Occupations	<u>1,489</u>

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

Source: Online advertised jobs data

Monthly Job Count

This section shows the number of job openings advertised online for Refrigeration Mechanics and Installers in Louisiana October, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings
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Occupation

Refrigeration Mechanics and Installers 🌟 🌱

Job Openings

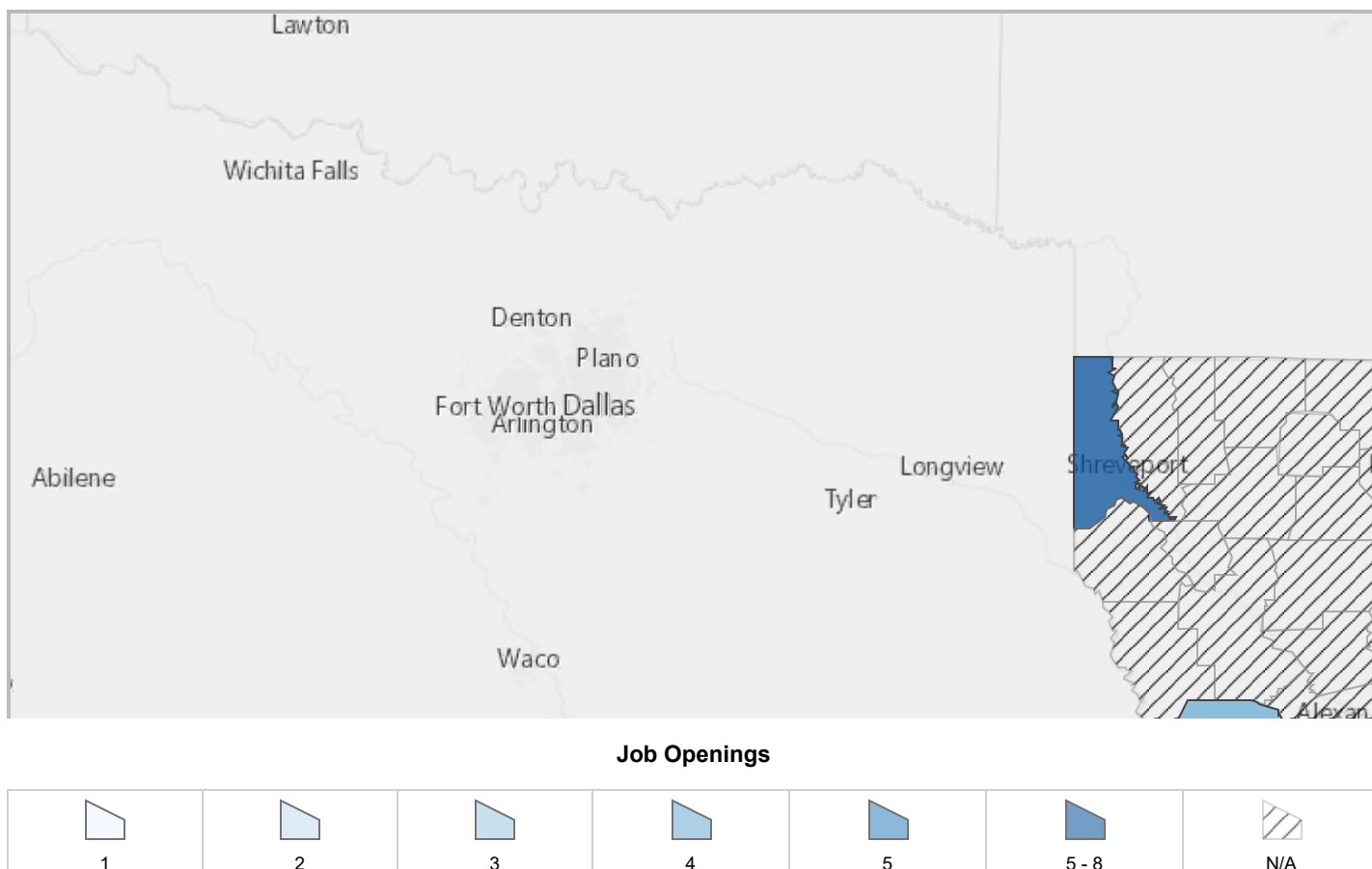
159

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Source: Online advertised jobs data

Jobs Area Distribution

This section shows the distribution of number of job openings advertised online for Refrigeration Mechanics and Installers in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level 2).



Job Source: Online advertised jobs data

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

Jobs in Related Occupations

This section shows the number of job openings advertised online in Louisiana for occupations related to Refrigeration Mechanics and Installers on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Occupation	Median Wage	Job Openings	*Related By
1	<u>Maintenance and Repair Workers, General</u> 🌟 🌱	\$35,576	<u>109</u>	O*NET
2	<u>Electricians</u> 🌟 🌱	\$50,806	<u>106</u>	O*NET
3	<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🌱	\$43,564	<u>85</u>	O*NET
4	<u>Plumbers</u> 🌟 🌱	\$55,149	<u>75</u>	O*NET

Rank	Occupation	Median Wage	Job Openings	*Related By
5	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	\$45,315	<u>65</u>	SOC4
6	<u>Maintenance Workers, Machinery</u>	\$44,228	<u>61</u>	SOC4
7	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	\$47,800	<u>51</u>	O*NET
8	<u>Pest Control Workers</u> 🌟	\$31,694	<u>48</u>	O*NET
9	<u>Automotive Master Mechanics</u>	\$38,386	<u>48</u>	O*NET
10	<u>Refrigeration Mechanics and Installers</u> 🌟 🌱	\$43,564	<u>48</u>	N/A
11	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	\$65,186	<u>44</u>	O*NET
12	<u>Pipe Fitters and Steamfitters</u> 🌟 🌱	\$55,149	<u>37</u>	O*NET
13	<u>Aircraft Mechanics and Service Technicians</u>	\$63,520	<u>27</u>	O*NET
14	<u>Millwrights</u> 🌟 🌱	\$58,468	<u>24</u>	O*NET
15	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🌱	\$62,553	<u>18</u>	O*NET
16	<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌟 🌱	\$30,118	<u>18</u>	SOC4
17	<u>Installation, Maintenance, and Repair Workers, All Other</u>	\$41,228	<u>18</u>	SOC4
18	<u>Industrial Machinery Mechanics</u> 🌱	\$55,230	<u>14</u>	SOC4
19	<u>Electrical Power-Line Installers and Repairers</u> 🌟 🌱	\$57,653	<u>14</u>	SOC4
20	<u>Telecommunications Line Installers and Repairers</u>	\$40,750	<u>9</u>	SOC4
21	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	\$32,492	<u>8</u>	SOC4
22	<u>Gaming Surveillance Officers and Gaming Investigators</u>	\$31,157	<u>7</u>	O*NET
23	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	\$74,226	<u>5</u>	O*NET
24	<u>Medical Equipment Repairers</u>	\$41,592	<u>5</u>	SOC4
25	<u>Precision Instrument and Equipment Repairers, All Other</u>	\$59,804	<u>5</u>	SOC4
26	<u>Manufactured Building and Mobile Home Installers</u>	N/A	<u>4</u>	SOC4
27	<u>Ship Engineers</u>	\$75,879	<u>4</u>	O*NET
28	<u>Riggers</u>	\$46,315	<u>3</u>	SOC4
29	<u>Chemical Plant and System Operators</u> 🌱	\$69,220	<u>3</u>	O*NET
30	<u>Locksmiths and Safe Repairers</u>	\$43,717	<u>2</u>	SOC4
31	<u>Automotive Glass Installers and Repairers</u>	\$30,409	<u>1</u>	O*NET
32	<u>Home Appliance Repairers</u>	\$32,408	<u>1</u>	SOC4

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Job Source: Online advertised jobs data

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

*Related By: O*NET™ - The [Occupational Information Network](#). O*NET is a registered trademark of the [US Department of Labor/Employment and Training Administration](#).

SOC4 - Occupational grouping based on 1st 4 digits of the [Standard Occupational Classification](#) system.

Candidates Available

This section shows potential candidates in the workforce system in Louisiana for Refrigeration Mechanics and Installers and for the related occupational group of Installation, Maintenance, and Repair Occupations on November 23, 2020.

Occupation	Candidates
Refrigeration Mechanics and Installers 🌟 🌿	49
Installation, Maintenance, and Repair Occupations	9,756

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Source: Individuals with active résumés in the workforce system.

Candidate Area Distribution

This section shows the distribution of potential candidates in the workforce system for Refrigeration Mechanics and Installers in Louisiana by parishes on November 23, 2020.

Rank	Area Name	Median Wage	Candidates
1	Jefferson Parish	\$43,564 state level wages	23
2	Orleans Parish	\$43,564 state level wages	23
3	East Baton Rouge Parish	\$43,564 state level wages	19
4	Lafayette Parish	\$43,564 state level wages	19
5	Ascension Parish	\$43,564 state level wages	18
6	St. Charles Parish	\$43,564 state level wages	18
7	St. John the Baptist Parish	\$43,564 state level wages	18
8	St. Tammany Parish	\$43,564 state level wages	18
9	Acadia Parish	\$43,564 state level wages	17

Rank	Area Name	Median Wage	Candidates
10	<u>Livingston Parish</u>	\$43,564 state level wages	17



Candidates



Candidate Source: Individuals with active résumés in the workforce system.

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

Candidates in Related Occupations

This section shows how many potential candidates in the workforce system were looking for work in Louisiana in occupations related to Refrigeration Mechanics and Installers on November 23, 2020.

Rank	Occupation	Median Wage	Candidates	*Related By
1	<u>Chemical Plant and System Operators</u> 🌱	\$69,220	2,179	O*NET
2	<u>Maintenance and Repair Workers, General</u> 🌱🌱	\$35,576	1,759	O*NET
3	<u>Electricians</u> 🌱🌱	\$50,806	1,461	O*NET
4	<u>Pipe Fitters and Steamfitters</u> 🌱🌱	\$55,149	1,365	O*NET
5	<u>Boilermakers</u> 🌱	\$60,970	1,033	O*NET
6	<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌱🌱	\$30,118	981	SOC4
7	<u>Riggers</u>	\$46,315	734	SOC4
8	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🌱	\$62,553	555	O*NET
9	<u>Installation, Maintenance, and Repair Workers, All Other</u>	\$41,228	424	SOC4

Rank	Occupation	Median Wage	Candidates	*Related By
10	<u>Millwrights</u> 🌟 🌱	\$58,468	382	O*NET
11	<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🌱	\$43,564	351	O*NET
12	<u>Industrial Machinery Mechanics</u> 🌱	\$55,230	278	SOC4
13	<u>Maintenance Workers, Machinery</u>	\$44,228	237	SOC4
14	<u>Aircraft Mechanics and Service Technicians</u>	\$63,520	218	O*NET
15	<u>Automotive Master Mechanics</u>	\$38,386	185	O*NET
16	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	\$45,315	176	SOC4
17	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	\$65,186	170	O*NET
18	<u>Commercial Divers</u> 🌟	\$43,960	169	O*NET
19	<u>Plumbers</u> 🌟 🌱	\$55,149	159	O*NET
20	<u>Gas Plant Operators</u>	\$66,142	127	O*NET
21	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	\$74,226	115	O*NET
22	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	\$47,800	113	O*NET
23	<u>Telecommunications Line Installers and Repairers</u>	\$40,750	112	SOC4
24	<u>Precision Instrument and Equipment Repairers, All Other</u>	\$59,804	112	SOC4
25	<u>Electrical Power-Line Installers and Repairers</u> 🌟 🌱	\$57,653	65	SOC4
26	<u>Pest Control Workers</u> 🌟	\$31,694	63	O*NET
27	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	\$32,492	58	SOC4
28	<u>Gaming Surveillance Officers and Gaming Investigators</u>	\$31,157	55	O*NET
29	<u>Refrigeration Mechanics and Installers</u> 🌟 🌱	\$43,564	49	N/A
30	<u>Automotive Glass Installers and Repairers</u>	\$30,409	47	O*NET
31	<u>Ship Engineers</u>	\$75,879	24	O*NET
32	<u>Refractory Materials Repairers, Except Brickmasons</u>	N/A	22	SOC4
33	<u>Home Appliance Repairers</u>	\$32,408	18	SOC4
34	<u>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</u> 🌟	\$43,564	10	SOC4
35	<u>Medical Equipment Repairers</u>	\$41,592	10	SOC4
36	<u>Manufactured Building and Mobile Home Installers</u>	N/A	10	SOC4
37	<u>Musical Instrument Repairers and Tuners</u>	N/A	8	SOC4
38	<u>Camera and Photographic Equipment Repairers</u>	\$39,384	7	SOC4
39	<u>Geothermal Technicians</u> 🌱	\$41,228	6	SOC4

Rank	Occupation	Median Wage	Candidates	*Related By
40	Mechanical Door Repairers 🌟	\$41,529	5	SOC4
41	Fabric Menders, Except Garment	N/A	5	SOC4
42	Locksmiths and Safe Repairers	\$43,717	4	SOC4
43	Elevator Installers and Repairers 🌟	Confidential	2	O*NET
44	Signal and Track Switch Repairers	N/A	2	O*NET

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Candidate Source: Individuals with active résumés in the workforce system.

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

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SOC4 - Occupational grouping based on 1st 4 digits of the [Standard Occupational Classification](#) system.

Jobs and Candidates Available

This section shows the number of job openings advertised online, as well as potential candidates in the workforce system in Louisiana for Refrigeration Mechanics and Installers and for the related occupational group of Installation, Maintenance, and Repair Occupations on November 23, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings	Candidates	Candidates per Job
Refrigeration Mechanics and Installers 🌟 🌱	<u>48</u>	49	1.02
Installation, Maintenance, and Repair Occupations	<u>1,489</u>	9,756	6.55

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Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

Jobs and Candidates Area Distribution

This section shows the distribution of number of job openings advertised online, as well as potential candidates in the workforce system for Refrigeration Mechanics and Installers in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Area Name	Median Wage	Job Openings	Candidates	Candidates per Job
1	Ascension Parish	\$43,564 state level wages	<u>1</u>	18	18.00
2	St. Tammany Parish	\$43,564 state level wages	<u>1</u>	18	18.00
3	Livingston Parish	\$43,564 state level wages	<u>1</u>	17	17.00
4	Calcasieu Parish	\$43,564 state level wages	<u>1</u>	14	14.00

Rank	Area Name	Median Wage	Job Openings	Candidates	Candidates per Job
5	<u>Jefferson Parish</u>	\$43,564 state level wages	<u>2</u>	23	11.50
6	<u>St. Landry Parish</u>	\$43,564 state level wages	<u>2</u>	15	7.50
7	<u>St. Bernard Parish</u>	\$43,564 state level wages	<u>2</u>	14	7.00
8	<u>St. Charles Parish</u>	\$43,564 state level wages	<u>3</u>	18	6.00
9	<u>Lafourche Parish</u>	\$43,564 state level wages	<u>3</u>	14	4.67
10	<u>Lafayette Parish</u>	\$43,564 state level wages	<u>5</u>	19	3.80



Candidates per Job



Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

National Supply and Demand Summary

Refrigeration Mechanics and Installers Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 15 percent from 2016 to 2026, much faster than the average for all occupations.

Commercial and residential building construction is expected to drive employment growth. The growing number of sophisticated climate-control systems is also expected to increase demand for qualified HVACR technicians.

Repair and replacement of HVACR systems is a large part of what technicians do. The growing emphasis on energy efficiency and pollution reduction is likely to increase the demand for HVACR technicians as climate-control systems are retrofitted, upgraded, or replaced entirely.

Job Prospects

Job opportunities for HVACR technicians are expected to be good. Candidates familiar with tablet computers and electronics, as well as those who have developed troubleshooting skills, will have the best job prospects.

Technicians who specialize in new installation work may experience periods of unemployment when the level of new construction activity declines. Maintenance and repair work, however, usually remains relatively stable. Business owners and homeowners depend on their climate-control or refrigeration systems year round and must keep them in good working order, regardless of economic conditions.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Employers by Number of Job Openings

This section shows the employers with the highest number of job openings advertised online for Refrigeration Mechanics and Installers in Louisiana on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Employer Name	Job Openings
1	NCR Corporation	<u>4</u>
2	Sunshine Quality Solutions LLC	<u>4</u>
3	The Goodyear Tire & Rubber Company	<u>4</u>
4	Ahern Rentals, Inc.	<u>2</u>
5	Associated Grocers, Inc. - Baton Rouge	<u>2</u>
6	Crown Equipment Corporation	<u>2</u>
7	Integration Innovation, Inc.	<u>2</u>
8	Karl Storz - Endoskop	<u>2</u>
9	ManTech International Corporation	<u>2</u>
10	Rite Hite Holding Corporation	<u>2</u>

Source: Online advertised jobs data

Advertised Job Skills

This section shows the top advertised detailed job skills found in job openings advertised online for Refrigeration Mechanics and Installers in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
1	Customer service	Customer Service Skills	<u>49</u>
2	Welding	Welding Skills	<u>17</u>

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
3	Determine repairable tire conditions	Tire Technician Skills	<u>17</u>
4	Preventative maintenance	Maintenance Technician Skills	<u>14</u>
5	Problem solving	Basic Skills	<u>12</u>
6	Work independently	Basic Skills	<u>9</u>
7	Attention to detail	Basic Skills	<u>8</u>
8	Complex repairs	Maintenance Technician Skills	<u>8</u>
9	General maintenance	Maintenance Technician Skills	<u>8</u>
10	Jewelry repair	Jeweler Skills	<u>5</u>

Source: Online advertised jobs data

Advertised Tools and Technology

This section shows the top advertised detailed tools and technologies found in job openings advertised online for Refrigeration Mechanics and Installers in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Detailed Tool or Technology	Advertised Tool and Technology Group	Job Opening Match Count
1	Dollies	Dollies	<u>82</u>
2	Tractors	Agricultural Tractors	<u>82</u>
3	Microsoft (MS) Office	Office Suite Software	<u>15</u>
4	Motor vehicles	Automobiles or Cars	<u>12</u>
5	Ladders	Ladders	<u>6</u>
6	Microsoft PowerPoint	Presentation Software	<u>5</u>
7	Dropbox	Document Management Software	<u>5</u>
8	Word processing software	Word Processing Software	<u>4</u>
9	Imaging software	Graphics or Photo Imaging Software	<u>4</u>
10	Mainframe computers	Mainframe Computers	<u>4</u>

Source: Online advertised jobs data

Typical Job Skills

This section shows the job skills that are related to Refrigeration Mechanics and Installers.

Rank	Typical Job Skills	Typical Skill Category
1	Inspect systems to determine if they are operating properly	Information Input
2	Repair pipes to stop leaking	Work Output
3	Adjust equipment to ensure optimal performance	Work Output

Rank	Typical Job Skills	Typical Skill Category
4	Replace worn, damaged, or defective mechanical parts	Work Output
5	Braze metal parts or components	Work Output
6	Repair worn, damaged, or defective mechanical parts	Work Output
7	Install machine or equipment replacement parts	Work Output
8	Install heating, ventilation, or air conditioning (HVAC) equipment	Work Output
9	Disassemble equipment to inspect for deficiencies	Work Output
10	Test mechanical systems to ensure proper functioning	Information Input
11	Maintain repair or maintenance records	Work Output
12	Install home appliances	Work Output
13	Order materials, supplies, or equipment	Interacting With Others
14	Travel to work sites to perform installation, repair or maintenance work	Work Output
15	Cut materials according to specifications or needs	Work Output
16	Connect electrical components or equipment	Work Output
17	Interpret blueprints, specifications, or diagrams to inform installation, development or operation activities	Information Input
18	Schedule repair, installation or maintenance activities	Mental Processes
19	Fabricate parts or components	Work Output
20	Supervise employees	Interacting With Others
21	Train others in operational procedures	Interacting With Others
22	Lay out work according to specifications	Work Output
23	Operate cranes, hoists, or other moving or lifting equipment	Work Output
24	Drill holes in parts, equipment, or materials	Work Output
25	Install hardware or other interior fixtures	Work Output
26	Install insulation in equipment or structures	Work Output

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Personal Skills

This section shows the personal skills that are most useful for Refrigeration Mechanics and Installers. Click on a link in the Personal Skills column to view more detailed information.

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Troubleshooting</u>	Determining causes of operating errors and deciding what to do about it.	78
<u>Repairing</u>	Repairing machines or systems using the needed tools.	78
<u>Operation Monitoring</u>	Watching gauges, dials, or other indicators to make sure a machine is working properly.	75

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Equipment Maintenance</u>	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	75
<u>Critical Thinking</u>	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.	69
<u>Equipment Selection</u>	Determining the kind of tools and equipment needed to do a job.	66
<u>Installation</u>	Installing equipment, machines, wiring, or programs to meet specifications.	66
<u>Operation and Control</u>	Controlling operations of equipment or systems.	66
<u>Quality Control Analysis</u>	Conducting tests and inspections of products, services, or processes to evaluate quality or performance.	66
<u>Complex Problem Solving</u>	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	56
<u>Active Listening</u>	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.	56
<u>Monitoring</u>	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	56
<u>Social Perceptiveness</u>	Being aware of others' reactions and understanding why they react as they do.	53
<u>Speaking</u>	Talking to others to convey information effectively.	53
<u>Reading Comprehension</u>	Understanding written sentences and paragraphs in work related documents.	53
<u>Time Management</u>	Managing one's own time and the time of others.	53
<u>Judgment and Decision Making</u>	Considering the relative costs and benefits of potential actions to choose the most appropriate one.	50
<u>Systems Analysis</u>	Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.	50
<u>Service Orientation</u>	Actively looking for ways to help people.	50
<u>Active Learning</u>	Understanding the implications of new information for both current and future problem-solving and decision-making.	50
<u>Learning Strategies</u>	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	50
<u>Writing</u>	Communicating effectively in writing as appropriate for the needs of the audience.	50

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Coordination</u>	Adjusting actions in relation to others' actions.	50
<u>Instructing</u>	Teaching others how to do something.	47
<u>Systems Evaluation</u>	Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	47
<u>Management of Personnel Resources</u>	Motivating, developing, and directing people as they work, identifying the best people for the job.	47
<u>Management of Material Resources</u>	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.	44
<u>Persuasion</u>	Persuading others to change their minds or behavior.	44
<u>Negotiation</u>	Bringing others together and trying to reconcile differences.	44
<u>Mathematics</u>	Using mathematics to solve problems.	38
<u>Operations Analysis</u>	Analyzing needs and product requirements to create a design.	31
<u>Science</u>	Using scientific rules and methods to solve problems.	25
<u>Management of Financial Resources</u>	Determining how money will be spent to get the work done, and accounting for these expenditures.	25
<u>Technology Design</u>	Generating or adapting equipment and technology to serve user needs.	22
<u>Programming</u>	Writing computer programs for various purposes.	16

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Education Requirements

Refrigeration Mechanics and Installers Refrigeration Mechanics and Installers usually require at least a Postsecondary non-degree award. However, not all employers may make this a hiring requirement.

Source: This information is based on the BLS Occupational Outlook Handbook (OOH).

Required Level of Education

This section shows the results of a national survey listing the most common required level of education for Refrigeration Mechanics and Installers.

Rank	Required Level of Education	Percentage of Respondents
1	Post-Secondary Certificate - awarded for training completed after high school (for example, in agriculture or natural resources, computer services, personal or culinary services, engineering technologies, healthcare, construction trades, mechanic and repair technologies, or precision production)	51.96%

Rank	Required Level of Education	Percentage of Respondents
2	Some College Courses	23.49%
3	Less than a High School Diploma	13.74%
4	Associate's Degree (or other 2-year degree)	9.75%
5	High School Diploma - or the equivalent (for example, GED)	1.05%

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

On The Job Training

This section shows the results of a national survey listing the most common lengths of on the job training for Refrigeration Mechanics and Installers.

Rank	On The Job Training	Percentage of Respondents
1	Over 1 year, up to and including 2 years	23.57%
2	Over 4 years, up to and including 10 years	19.12%
3	Over 2 years, up to and including 4 years	17.51%
4	Over 1 month, up to and including 3 months	15.25%
5	Over 6 months, up to and including 1 year	14.20%
6	Over 3 months, up to and including 6 months	10.34%

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

On-Site or In-Plant Training

This section shows the results of a national survey listing the most common lengths of on-site or in-plant training for Refrigeration Mechanics and Installers.

Rank	On-Site or In-Plant Training	Percentage of Respondents
1	Over 4 years, up to and including 10 years	30.30%
2	Over 1 month, up to and including 3 months	23.49%
3	Over 3 months, up to and including 6 months	21.13%
4	Over 6 months, up to and including 1 year	9.75%
5	Over 2 years, up to and including 4 years	8.22%
6	Up to and including 1 month	4.45%
7	Over 1 year, up to and including 2 years	1.59%
8	None	1.05%

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Education Level of Jobs and Candidates

This section shows the minimum level of education requested by employers on job openings advertised online, as well as the educational attainment of potential candidates in the workforce system that are looking for jobs as Refrigeration Mechanics and Installers in Louisiana on November

23, 2020. There were 40 job openings advertised online that did not specify a minimum education requirement (Jobs De-duplication Level 2).

Rank	Education Level	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	Less than High School	0	N/A	4	8.16%
2	High School Diploma or Equivalent	<u>7</u>	14.58%	20	40.82%
3	1 Year of College or a Technical or Vocational School	0	N/A	6	12.24%
4	2 Years of College or a Technical or Vocational School	0	N/A	3	6.12%
5	3 Years of College or a Technical or Vocational School	0	N/A	3	6.12%
6	Vocational School Certificate	<u>1</u>	2.08%	6	12.24%
7	Associate's Degree	0	N/A	5	10.20%
8	Bachelor's Degree	0	N/A	2	4.08%
9	Not Specified	<u>40</u>	83.33%	0	N/A

Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

Education Training Programs

This section shows the Education Training Programs for Refrigeration Mechanics and Installers in Louisiana.

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
<u>AMERICAN SCHOOL OF BUSINESS</u>	<u>Heat and Air Conditioning Technician</u>	Shreveport, LA	\$13,500	10 Months	
<u>Ayers Career College</u>	<u>Heating/AC/Refrigeration</u> An industry-recognized certificate or certification	Shreveport, LA	\$15,900	36 Weeks	✔
<u>Baton Rouge Community College</u>	<u>Air Conditioning & Refrigeration</u> An industry-recognized certificate or certification	Baton Rouge, LA	\$7,947	4 Semesters	✔
<u>Baton Rouge Community College</u>	<u>HVAC Central Air Conditioning</u> An industry-recognized certificate or certification	Baton Rouge, LA	\$450	90 Hours	✔
<u>Baton Rouge Community College</u>	<u>HVAC Commercial Refrigeration</u> An industry-recognized certificate or certification	Baton Rouge, LA	\$450	90 Hours	✔

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
Baton Rouge Community College	HVAC Principles of Electricity An industry-recognized certificate or certification	Baton Rouge, LA	\$450	90 Hours	✔
Baton Rouge Community College	HVAC Principles of Refrigeration An industry-recognized certificate or certification	Baton Rouge, LA	\$450	90 Hours	✔
Baton Rouge Community College	HVAC/R Technician (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	\$2,895	162 Hours	✔
Baton Rouge Community College	HVAC/R Technician (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	\$2,895	162 Hours	✔
Baton Rouge Community College	HVAC/R Technician (Voucher Included) An industry-recognized certificate or certification	New Roads, LA	\$2,895	162 Hours	✔

Source: U.S. Department of Commerce, Bureau of the Census, Midyear Estimates

Advertised Job Certifications

This section shows the top advertised certification groups found in job openings advertised online for Refrigeration Mechanics and Installers in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
1	Commercial Drivers License (CDL)	Ground Transportation	<u>95</u>
2	Refrigerating Engineers & Technicians Association (RETA)	Appliances	<u>84</u>
3	Water Quality Association (WQA) Certifications	Utilities Install and Repair	<u>8</u>
4	Manufacturing Skills Institute (MSI) Certifications	Manufacturing and Production - All Other	<u>1</u>

Source: Online advertised jobs data

Training Program Completers

There is no data available for Refrigeration Mechanics and Installers in Louisiana.

National Education, Training, Licensing and Qualifications

Refrigeration Mechanics and Installers Educational services; state, local, and private 4

Retail trade 4

Wholesale trade 3

HVACR technicians work mostly in homes, schools, stores, hospitals, office buildings, or factories. Some technicians are assigned to specific jobsites at the beginning of each day. Others travel to

several different locations, making service calls.

Although most technicians work indoors, some may have to work on outdoor heat exchangers, even in bad weather. Technicians often work in awkward or cramped spaces, and some work in buildings that are uncomfortable because the air conditioning or heating system is not working properly.

Injuries and Illnesses

HVACR technicians have one of the highest rates of injuries and illnesses of all occupations. Potential hazards include electrical shock, burns, muscle strains, and injuries from handling heavy equipment.

Appropriate safety equipment is necessary in handling refrigerants, because they are hazardous and contact can cause skin damage, frostbite, or blindness. When working in tight spaces, inhalation of refrigerants is also a potential hazard. Several refrigerants are highly flammable and require additional care.

Work Schedules

The majority of HVACR technicians worked full time in 2016. Evening or weekend shifts may be required, and HVACR technicians often work overtime or irregular hours during peak heating and cooling seasons.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Typical Work Experience Requirements

Refrigeration Mechanics and Installers Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with these occupations.

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Related Work Experience

This section shows the results of a national survey listing the most common related work experience for Refrigeration Mechanics and Installers.

Rank	Related Work Experience	Percentage of Respondents
1	None	19.04%
2	Over 10 years	18.58%
3	Over 2 years, up to and including 4 years	18.52%
4	Over 1 year, up to and including 2 years	17.35%
5	Over 4 years, up to and including 6 years	14.11%
6	Over 8 years, up to and including 10 years	7.96%
7	Over 6 months, up to and including 1 year	4.45%

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Work Experience of Jobs and Candidates

This section shows the minimum required work experience requested by employers on job openings advertised online, as well as the experience level of potential candidates in the workforce system that are looking for jobs as Refrigeration Mechanics and Installers in Louisiana on November 23, 2020.

There were 41 job openings advertised online that did not specify a minimum experience requirement (Jobs De-duplication Level 2).

Rank	Experience	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	41	85.42%	0	N/A
2	Entry Level	4	8.33%	0	N/A
3	Less than 1 year	1	2.08%	6	12.25%
4	1 Year to 2 Years	1	2.08%	1	2.04%
5	2 Years to 5 Years	1	2.08%	3	6.12%
6	5 Years to 10 Years	0	N/A	8	16.33%
7	More than 10 Years	0	N/A	31	63.27%

Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

Current Job Order Wage Information

The employer has NOT indicated a salary range for this job. The information below shows statistics on typical salaries in the local labor market for Refrigeration Mechanics and Installers. This data is NOT an indication of what this employer is willing to pay for this job.

Employment Wage Statistics

This section shows the estimated employment wage statistics for individuals in Louisiana employed for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in 2019.

Rate Type / Statistical Type	Entry level	Median	Experienced
Annual wage or salary	\$25,429	\$43,564	\$64,559
Hourly wage	\$12.23	\$20.94	\$31.04

Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Entry level and Experienced wage rates represent the means of the lower 1/3 and upper 2/3 of the wage distribution, respectively. Data is from an annual survey.

Wage Rates on Advertised Jobs

This section shows a statistical breakdown of available wage data on the 48 job openings advertised online for Refrigeration Mechanics and Installers in Louisiana that posted a salary on November 23, 2020.

Rate Type / Statistical Type	Entry Level	Median	Experienced
Annual wage or salary	N/A	N/A	N/A
Hourly Wage	N/A	N/A	N/A

Source: Online advertised jobs data

Note: This information is based on actual job orders and is not based on a statistically valid labor market survey. Hourly wage rate calculations in this section assume a 40 hour work week.

Desired Salary of Available Candidates

This section shows the desired salary of potential candidates in the workforce system that are looking for jobs as Refrigeration Mechanics and Installers in Louisiana on November 23, 2020.

Rank	Desired Salary	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	13	27.08%
2	\$5,000 - \$19,999	1	2.08%
3	\$20,000 - \$34,999	8	16.67%
4	\$35,000 - \$49,999	13	27.08%
5	\$50,000 - \$64,999	7	14.58%
6	\$65,000 - \$79,999	5	10.42%
7	\$95,000 or more	1	2.08%















Source: Individuals with active résumés in the workforce system.

Wage Rates Area Distribution

There is no data available for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana.

Wage Rates in Related Occupations

This section shows a comparison of 2019 median annual rates for occupations that are in the same occupational family as Refrigeration Mechanics and Installers for Louisiana.

Rank	Occupation	Median	*Related By
1	<u>Ship Engineers</u>	\$75,879	O*NET
2	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	\$74,226	O*NET
3	<u>Chemical Plant and System Operators</u> 	\$69,220	O*NET
4	<u>Gas Plant Operators</u>	\$66,142	O*NET
5	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	\$65,186	O*NET
6	<u>Aircraft Mechanics and Service Technicians</u>	\$63,520	O*NET
7	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 	\$62,553	O*NET
8	<u>Boilermakers</u> 	\$60,970	O*NET
9	<u>Precision Instrument and Equipment Repairers, All Other</u>	\$59,804	SOC4
10	<u>Millwrights</u>  	\$58,468	O*NET
11	<u>Electrical Power-Line Installers and Repairers</u>  	\$57,653	SOC4
12	<u>Industrial Machinery Mechanics</u> 	\$55,230	SOC4
13	<u>Pipe Fitters and Steamfitters</u>  	\$55,149	O*NET
14	<u>Plumbers</u>  	\$55,149	O*NET
15	<u>Electricians</u>  	\$50,806	O*NET

Rank	Occupation	Median	*Related By
16	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	\$47,800	O*NET
17	<u>Riggers</u>	\$46,315	SOC4
18	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	\$45,315	SOC4
19	<u>Maintenance Workers, Machinery</u>	\$44,228	SOC4
20	<u>Commercial Divers</u> 🌟	\$43,960	O*NET
21	<u>Locksmiths and Safe Repairers</u>	\$43,717	SOC4
22	<u>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</u> 🌟	\$43,564	SOC4
23	<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🌿	\$43,564	O*NET
24	<u>Refrigeration Mechanics and Installers</u> 🌟 🌿	\$43,564	N/A
25	<u>Medical Equipment Repairers</u>	\$41,592	SOC4
26	<u>Mechanical Door Repairers</u> 🌟	\$41,529	SOC4
27	<u>Installation, Maintenance, and Repair Workers, All Other</u>	\$41,228	SOC4
28	<u>Geothermal Technicians</u> 🌿	\$41,228	SOC4
29	<u>Telecommunications Line Installers and Repairers</u>	\$40,750	SOC4
30	<u>Camera and Photographic Equipment Repairers</u>	\$39,384	SOC4
31	<u>Automotive Master Mechanics</u>	\$38,386	O*NET
32	<u>Maintenance and Repair Workers, General</u> 🌟 🌿	\$35,576	O*NET
33	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	\$32,492	SOC4
34	<u>Home Appliance Repairers</u>	\$32,408	SOC4
35	<u>Pest Control Workers</u> 🌟	\$31,694	O*NET
36	<u>Gaming Surveillance Officers and Gaming Investigators</u>	\$31,157	O*NET
37	<u>Automotive Glass Installers and Repairers</u>	\$30,409	O*NET
38	<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌟 🌿	\$30,118	SOC4
*	<u>Elevator Installers and Repairers</u> 🌟	Confidential	O*NET

🌟 BRIGHT OUTLOOK NATIONALLY | 🌿 GREEN OCCUPATIONS

* Rank is suppressed for confidential data.

Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Entry level and Experienced wage rates represent the means of the lower 1/3 and upper 2/3 of the wage distribution, respectively. Data is from an annual survey.

*Related By: O*NET™ - The Occupational Information Network. O*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

Wage Rates by Industry

There is no data available for Refrigeration Mechanics and Installers in Louisiana.

National Earnings Data Summary

Refrigeration Mechanics and Installers The median annual wage for heating, air conditioning, and refrigeration mechanics and installers was \$45,910 in May 2016. The median wage is the wage at which half the workers in an occupation earned more than that amount and half earned less. The lowest 10 percent earned less than \$28,440, and the highest 10 percent earned more than \$73,350.

In May 2016, the median annual wages for heating, air conditioning, and refrigeration mechanics and installers in the top industries in which they worked were as follows:

Wholesale trade \$48,730
Educational services; state, local, and private 48,190
Retail trade 46,870
Plumbing, heating, and air-conditioning contractors 44,390

Apprentices usually earn about half of the wage paid to experienced workers. As they learn to do more, their pay increases.

The majority of HVACR technicians worked full time in 2016. Evening or weekend shifts may be required, and HVACR technicians often work overtime or irregular hours during peak heating and cooling seasons.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Occupational Employment & Future Employment Outlook

This section shows the long term employment projections for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana from 2016-2026.

Occupation	2016 Estimated Employment	2026 Projected Employment	Total 2016- 2026 Employment Change	2016-2026 Annual Avg. Percent Change
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,502	4,998	496	1.05%
Total All	2,034,986	2,203,144	168,158	0.80%

Source: Occupational Employment Projections

Employment Data Area Distribution

This section shows the distribution of the 2016 estimated employment for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana by regional labor market area.

Rank	Area	2016 Estimated Employment
1	<u>1st Regional Labor Market Area, New Orleans</u>	1,284
2	<u>2nd Regional Labor Market Area, Baton Rouge</u>	968
3	<u>4th Regional Labor Market Area, Lafayette</u>	773
4	<u>7th Regional Labor Market Area, Shreveport</u>	429
5	<u>5th Regional Labor Market Area, Lake Charles</u>	317
6	<u>8th Regional Labor Market Area, Monroe</u>	302
7	<u>3rd Regional Labor Market Area, Houma</u>	253
8	<u>6th Regional Labor Market Area, Alexandria</u>	152



Source: Labor Market Statistics, Occupational Employment Projections Program

Employment Data in Related Occupations

This section shows the 2016 Estimated Employment in Louisiana for occupations related to Refrigeration Mechanics and Installers.

Rank	Occupation	2016 Estimated Employment	*Related By
1	<u>Maintenance and Repair Workers, General</u> 🌟 🌿	26,983	O*NET
2	<u>Electricians</u> 🌟 🌿	11,774	O*NET
3	<u>Pipe Fitters and Steamfitters</u> 🌟 🌿	11,194	O*NET
4	<u>Plumbers</u> 🌟 🌿	11,194	O*NET
5	<u>Automotive Master Mechanics</u>	8,887	O*NET
6	<u>Industrial Machinery Mechanics</u> 🌿	7,260	SOC4
7	<u>Chemical Plant and System Operators</u> 🌿	4,553	O*NET
8	<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🌿	4,502	O*NET
9	<u>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</u> 🌟	4,502	SOC4
10	<u>Refrigeration Mechanics and Installers</u> 🌟 🌿	4,502	SOC4
11	<u>Geothermal Technicians</u> 🌿	4,129	SOC4
12	<u>Installation, Maintenance, and Repair Workers, All Other</u>	4,129	SOC4
13	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	4,063	O*NET

Rank	Occupation	2016 Estimated Employment	*Related By
14	<u>Riggers</u>	4,023	SOC4
15	<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌟 🌱	3,931	SOC4
16	<u>Maintenance Workers, Machinery</u>	2,849	SOC4
17	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	2,820	O*NET
18	<u>Boilermakers</u> 🌱	1,658	O*NET
19	<u>Aircraft Mechanics and Service Technicians</u>	1,626	O*NET
20	<u>Pest Control Workers</u> 🌟	1,552	O*NET
21	<u>Millwrights</u> 🌟 🌱	1,310	O*NET
22	<u>Electrical Power-Line Installers and Repairers</u> 🌟 🌱	1,093	SOC4
23	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🌱	913	O*NET
24	<u>Commercial Divers</u> 🌟	878	O*NET
25	<u>Telecommunications Line Installers and Repairers</u>	863	SOC4
26	<u>Gas Plant Operators</u>	740	O*NET
27	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	643	SOC4
28	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	572	SOC4
29	<u>Locksmiths and Safe Repairers</u>	411	SOC4
30	<u>Automotive Glass Installers and Repairers</u>	406	O*NET
31	<u>Medical Equipment Repairers</u>	292	SOC4
32	<u>Home Appliance Repairers</u>	279	SOC4
33	<u>Gaming Surveillance Officers and Gaming Investigators</u>	263	O*NET
34	<u>Precision Instrument and Equipment Repairers, All Other</u>	205	SOC4
35	<u>Signal and Track Switch Repairers</u>	145	O*NET
36	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	38	O*NET
*	<u>Camera and Photographic Equipment Repairers</u>	Confidential	SOC4
*	<u>Elevator Installers and Repairers</u> 🌟	Confidential	O*NET
*	<u>Manufactured Building and Mobile Home Installers</u>	Confidential	SOC4
*	<u>Mechanical Door Repairers</u> 🌟	Confidential	SOC4
*	<u>Musical Instrument Repairers and Tuners</u>	Confidential	SOC4
*	<u>Refractory Materials Repairers, Except Brickmasons</u>	Confidential	SOC4
*	<u>Ship Engineers</u>	Confidential	O*NET
*	<u>Watch Repairers</u>	Confidential	SOC4

* Rank is suppressed for confidential data.

Source: Occupational Employment Projections

*Related By: O*NET™ - The Occupational Information Network. O*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

Projected Annual Openings

This section shows the long term projected annual openings for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana from 2016 to 2026.

Occupation	Total Annual Average Openings	Annual Average Openings Due to Growth	Annual Average Openings Due to Replacement
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	N/A	N/A	N/A
Installation, Maintenance, and Repair	N/A	N/A	N/A

Source: Labor Market Statistics, Occupational Employment Projections Program

Projected Annual Openings Area Distribution

This section shows the distribution of the total annual average openings for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana by regional labor market area from 2016 to 2026.

Rank	Area	Total Annual Average Openings
1	<u>1st Regional Labor Market Area, New Orleans</u>	N/A
2	<u>2nd Regional Labor Market Area, Baton Rouge</u>	N/A
3	<u>3rd Regional Labor Market Area, Houma</u>	N/A
4	<u>4th Regional Labor Market Area, Lafayette</u>	N/A
5	<u>5th Regional Labor Market Area, Lake Charles</u>	N/A
6	<u>6th Regional Labor Market Area, Alexandria</u>	N/A
7	<u>7th Regional Labor Market Area, Shreveport</u>	N/A
8	<u>8th Regional Labor Market Area, Monroe</u>	N/A

There is no total annual average openings data available for Refrigeration Mechanics and Installers in Louisiana.

Source: Labor Market Statistics, Occupational Employment Projections Program

Projected Annual Openings in Related Occupations

This section shows the projected total annual average openings in Louisiana for occupations related to Refrigeration Mechanics and Installers from 2016 to 2026.

Rank	Occupation	Total Annual Average Openings	*Related By
1	<u>Aircraft Mechanics and Service Technicians</u>	N/A	O*NET
2	<u>Automotive Glass Installers and Repairers</u>	N/A	O*NET
3	<u>Automotive Master Mechanics</u>	N/A	O*NET
4	<u>Boilermakers</u> 🍃	N/A	O*NET
5	<u>Chemical Plant and System Operators</u> 🍃	N/A	O*NET
6	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	N/A	SOC4
7	<u>Commercial Divers</u> 🌟	N/A	O*NET
8	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	N/A	SOC4
9	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🍃	N/A	O*NET
10	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	N/A	O*NET
11	<u>Electrical Power-Line Installers and Repairers</u> 🌟 🍃	N/A	SOC4
12	<u>Electricians</u> 🌟 🍃	N/A	O*NET
13	<u>Gaming Surveillance Officers and Gaming Investigators</u>	N/A	O*NET
14	<u>Gas Plant Operators</u>	N/A	O*NET
15	<u>Geothermal Technicians</u> 🍃	N/A	SOC4
16	<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🍃	N/A	O*NET
17	<u>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</u> 🌟	N/A	SOC4
18	<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌟 🍃	N/A	SOC4
19	<u>Home Appliance Repairers</u>	N/A	SOC4
20	<u>Industrial Machinery Mechanics</u> 🍃	N/A	SOC4
21	<u>Installation, Maintenance, and Repair Workers, All Other</u>	N/A	SOC4
22	<u>Locksmiths and Safe Repairers</u>	N/A	SOC4
23	<u>Maintenance and Repair Workers, General</u> 🌟 🍃	N/A	O*NET
24	<u>Maintenance Workers, Machinery</u>	N/A	SOC4
25	<u>Medical Equipment Repairers</u>	N/A	SOC4
26	<u>Millwrights</u> 🌟 🍃	N/A	O*NET
27	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	N/A	O*NET
28	<u>Pest Control Workers</u> 🌟	N/A	O*NET
29	<u>Pipe Fitters and Steamfitters</u> 🌟 🍃	N/A	O*NET
30	<u>Plumbers</u> 🌟 🍃	N/A	O*NET

Rank	Occupation	Total Annual Average Openings	*Related By
31	<u>Precision Instrument and Equipment Repairers, All Other</u>	N/A	SOC4
32	<u>Refrigeration Mechanics and Installers</u> 🌱	N/A	SOC4
33	<u>Riggers</u>	N/A	SOC4
34	<u>Signal and Track Switch Repairers</u>	N/A	O*NET
35	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	N/A	O*NET
36	<u>Telecommunications Line Installers and Repairers</u>	N/A	SOC4
*	<u>Camera and Photographic Equipment Repairers</u>	Confidential	SOC4
*	<u>Elevator Installers and Repairers</u> 🌱	Confidential	O*NET
*	<u>Manufactured Building and Mobile Home Installers</u>	Confidential	SOC4
*	<u>Mechanical Door Repairers</u> 🌱	Confidential	SOC4
*	<u>Musical Instrument Repairers and Tuners</u>	Confidential	SOC4
*	<u>Refractory Materials Repairers, Except Brickmasons</u>	Confidential	SOC4
*	<u>Ship Engineers</u>	Confidential	O*NET
*	<u>Watch Repairers</u>	Confidential	SOC4

🌱 BRIGHT OUTLOOK NATIONALLY | 🌱 GREEN OCCUPATIONS

* Rank is suppressed for confidential data.

Source: Occupational Employment Projections

Industries by Employment

This section shows the industries that employed the highest number of Heating, Air Conditioning, and Refrigeration Mechanics and Installers (no data available for Refrigeration Mechanics and Installers) in Louisiana in 2016.

Rank	Industry Title	Estimated Employment	Percent of Total Employment
1	<u>Specialty Trade Contractors</u>	2,929	65.06%
2	<u>Self-Employed and Unpaid Family Workers, Primary Job</u>	409	9.08%
3	<u>Repair and Maintenance</u>	151	3.35%
4	<u>Merchant Wholesalers, Durable Goods</u>	118	2.62%
5	<u>Real Estate</u>	67	1.49%
6	<u>Hospitals</u>	67	1.49%
*	<u>Crop Production</u>	Confidential	Confidential
*	<u>Utilities</u>	Confidential	Confidential
*	<u>Construction of Buildings</u>	Confidential	Confidential
*	<u>Heavy and Civil Engineering Construction</u>	Confidential	Confidential

* Rank is suppressed for confidential data.

Source: Louisiana Workforce Commission, Occupational Projections Program

Work Activities

This section shows the most common work activities required by Refrigeration Mechanics and Installers in order of importance. Click on a link in the Work Activity column to view more detailed information.

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Getting Information</u>	Observing, receiving, and otherwise obtaining information from all relevant sources.	82
<u>Making Decisions and Solving Problems</u>	Analyzing information and evaluating results to choose the best solution and solve problems.	81
<u>Operating Vehicles, Mechanized Devices, or Equipment</u>	Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.	80
<u>Documenting/Recording Information</u>	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.	79
<u>Identifying Objects, Actions, and Events</u>	Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.	78
<u>Inspecting Equipment, Structures, or Material</u>	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.	78
<u>Repairing and Maintaining Mechanical Equipment</u>	Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.	78
<u>Scheduling Work and Activities</u>	Scheduling events, programs, and activities, as well as the work of others.	77
<u>Organizing, Planning, and Prioritizing Work</u>	Developing specific goals and plans to prioritize, organize, and accomplish your work.	76
<u>Communicating with Persons Outside Organization</u>	Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.	76
<u>Performing General Physical Activities</u>	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.	75
<u>Controlling Machines and Processes</u>	Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).	75

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Updating and Using Relevant Knowledge</u>	Keeping up-to-date technically and applying new knowledge to your job.	74
<u>Handling and Moving Objects</u>	Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.	74
<u>Communicating with Supervisors, Peers, or Subordinates</u>	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.	74
<u>Repairing and Maintaining Electronic Equipment</u>	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.	72
<u>Processing Information</u>	Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.	70
<u>Interacting With Computers</u>	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.	68
<u>Performing for or Working Directly with the Public</u>	Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.	67
<u>Monitor Processes, Materials, or Surroundings</u>	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.	66
<u>Coordinating the Work and Activities of Others</u>	Getting members of a group to work together to accomplish tasks.	66
<u>Evaluating Information to Determine Compliance with Standards</u>	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.	66
<u>Guiding, Directing, and Motivating Subordinates</u>	Providing guidance and direction to subordinates, including setting performance standards and monitoring performance.	66
<u>Judging the Qualities of Things, Services, or People</u>	Assessing the value, importance, or quality of things or people.	65
<u>Training and Teaching Others</u>	Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.	64
<u>Establishing and Maintaining Interpersonal Relationships</u>	Developing constructive and cooperative working relationships with others, and maintaining them over time.	63

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Resolving Conflicts and Negotiating with Others</u>	Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.	63
<u>Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment</u>	Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.	62
<u>Coaching and Developing Others</u>	Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.	62
<u>Thinking Creatively</u>	Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.	57
<u>Developing Objectives and Strategies</u>	Establishing long-range objectives and specifying the strategies and actions to achieve them.	56
<u>Analyzing Data or Information</u>	Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.	55
<u>Estimating the Quantifiable Characteristics of Products, Events, or Information</u>	Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.	53
<u>Performing Administrative Activities</u>	Performing day-to-day administrative tasks such as maintaining information files and processing paperwork.	52
<u>Developing and Building Teams</u>	Encouraging and building mutual trust, respect, and cooperation among team members.	52
<u>Interpreting the Meaning of Information for Others</u>	Translating or explaining what information means and how it can be used.	51
<u>Staffing Organizational Units</u>	Recruiting, interviewing, selecting, hiring, and promoting employees in an organization.	50
<u>Monitoring and Controlling Resources</u>	Monitoring and controlling resources and overseeing the spending of money.	47
<u>Selling or Influencing Others</u>	Convincing others to buy merchandise/goods or to otherwise change their minds or actions.	47
<u>Assisting and Caring for Others</u>	Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.	45

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Provide Consultation and Advice to Others</u>	Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.	42

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Tasks

This section shows the most common tasks required by Refrigeration Mechanics and Installers in order of importance. Click on a link in the Task column to view more detailed information.

Tasks	Task Description	Rank by Importance (Out of 100)
<u>Observe and test system operation, using gauges and instruments.</u>	Core	83
<u>Test lines, components, and connections for leaks.</u>	Core	81
<u>Adjust valves according to specifications and charge system with proper type of refrigerant by pumping the specified gas or fluid into the system.</u>	Core	78
<u>Adjust or replace worn or defective mechanisms and parts and reassemble repaired systems.</u>	Core	78
<u>Braze or solder parts to repair defective joints and leaks.</u>	Core	77
<u>Perform mechanical overhauls and refrigerant reclaiming.</u>	Core	75
<u>Install expansion and control valves, using acetylene torches and wrenches.</u>	Core	75
<u>Mount compressor, condenser, and other components in specified locations on frames, using hand tools and acetylene welding equipment.</u>	Core	73
<u>Dismantle malfunctioning systems and test components, using electrical, mechanical, and pneumatic testing equipment.</u>	Core	72
<u>Keep records of repairs and replacements made and causes of malfunctions.</u>	Core	71
<u>Estimate, order, pick up, deliver, and install materials and supplies needed to maintain equipment in good working condition.</u>	Core	70
<u>Install wiring to connect components to an electric power source.</u>	Core	69
<u>Cut, bend, thread, and connect pipe to functional components and water, power, or refrigeration system.</u>	Core	69
<u>Read blueprints to determine location, size, capacity, and type of components needed to build refrigeration system.</u>	Core	69
<u>Schedule work with customers and initiate work orders, house requisitions, and orders from stock.</u>	Core	68

Tasks	Task Description	Rank by Importance (Out of 100)
<u>Fabricate and assemble structural and functional components of refrigeration systems, using hand tools, power tools, and welding equipment.</u>	Core	68
<u>Supervise and instruct assistants.</u>	Core	66
<u>Lay out reference points for installation of structural and functional components, using measuring instruments.</u>	Core	62
<u>Lift and align components into position, using hoist or block and tackle.</u>	Core	61
<u>Drill holes and install mounting brackets and hangers into floor and walls of building.</u>	Core	55
<u>Insulate shells and cabinets of systems.</u>	Supplemental	50

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

National Working Conditions

Refrigeration Mechanics and Installers HVACR technicians work indoors and outdoors.

Heating, air conditioning, and refrigeration mechanics and installers held about 332,900 jobs in 2016. The largest employers of heating, air conditioning, and refrigeration mechanics and installers were as follows:

- Plumbing, heating, and air-conditioning contractors 64%
- Self-employed workers 9
- Educational services; state, local, and private 4
- Retail trade 4
- Wholesale trade 3

HVACR technicians work mostly in homes, schools, stores, hospitals, office buildings, or factories. Some technicians are assigned to specific jobsites at the beginning of each day. Others travel to several different locations, making service calls.

Although most technicians work indoors, some may have to work on outdoor heat exchangers, even in bad weather. Technicians often work in awkward or cramped spaces, and some work in buildings that are uncomfortable because the air conditioning or heating system is not working properly.

Injuries and Illnesses

HVACR technicians have one of the highest rates of injuries and illnesses of all occupations. Potential hazards include electrical shock, burns, muscle strains, and injuries from handling heavy equipment.

Appropriate safety equipment is necessary in handling refrigerants, because they are hazardous and contact can cause skin damage, frostbite, or blindness. When working in tight spaces, inhalation of refrigerants is also a potential hazard. Several refrigerants are highly flammable and require additional care.

Work Schedules

The majority of HVACR technicians worked full time in 2016. Evening or weekend shifts may be required, and HVACR technicians often work overtime or irregular hours during peak heating and cooling seasons.

Source: U.S. Department of Labor Bureau of Labor Statistics

Typical Work Conditions

This section shows the most common work conditions required by Refrigeration Mechanics and Installers in order of importance.

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Contact With Others	How much does this job require the worker to be in contact with others (face-to-face, by telephone, or otherwise) in order to perform it?	93
Telephone	How often do you have telephone conversations in this job?	91
Face-to-Face Discussions	How often do you have to have face-to-face discussions with individuals or teams in this job?	89
Spend Time Using Your Hands to Handle, Control, or Feel Objects, Tools, or Controls	How much does this job require using your hands to handle, control, or feel objects, tools or controls?	88
Frequency of Decision Making	How frequently is the worker required to make decisions that affect other people, the financial resources, and/or the image and reputation of the organization?	88
Freedom to Make Decisions	How much decision making freedom, without supervision, does the job offer?	88
Wear Common Protective or Safety Equipment such as Safety Shoes, Glasses, Gloves, Hearing Protection, Hard Hats, or Life Jackets	How much does this job require wearing common protective or safety equipment such as safety shoes, glasses, gloves, hard hats or life jackets?	84
Importance of Being Exact or Accurate	How important is being very exact or highly accurate in performing this job?	83
Electronic Mail	How often do you use electronic mail in this job?	81
Work With Work Group or Team	How important is it to work with others in a group or team in this job?	81
Impact of Decisions on Co-workers or Company Results	What results do your decisions usually have on other people or the image or reputation or financial resources of your employer?	81
Outdoors, Exposed to Weather	How often does this job require working outdoors, exposed to all weather conditions?	79
Responsible for Others' Health and Safety	How much responsibility is there for the health and safety of others in this job?	78

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Exposed to Contaminants	How often does this job require working exposed to contaminants (such as pollutants, gases, dust or odors)?	78
Exposed to Hazardous Conditions	How often does this job require exposure to hazardous conditions?	76
Structured versus Unstructured Work	To what extent is this job structured for the worker, rather than allowing the worker to determine tasks, priorities, and goals?	75
Sounds, Noise Levels Are Distracting or Uncomfortable	How often does this job require working exposed to sounds and noise levels that are distracting or uncomfortable?	75
Exposed to Hazardous Equipment	How often does this job require exposure to hazardous equipment?	74
Deal With External Customers	How important is it to work with external customers or the public in this job?	74
Extremely Bright or Inadequate Lighting	How often does this job require working in extremely bright or inadequate lighting conditions?	73
Very Hot or Cold Temperatures	How often does this job require working in very hot (above 90 F degrees) or very cold (below 32 F degrees) temperatures?	73
Time Pressure	How often does this job require the worker to meet strict deadlines?	72
Cramped Work Space, Awkward Positions	How often does this job require working in cramped work spaces that requires getting into awkward positions?	72
Indoors, Not Environmentally Controlled	How often does this job require working indoors in non-controlled environmental conditions (e.g., warehouse without heat)?	71
Consequence of Error	How serious would the result usually be if the worker made a mistake that was not readily correctable?	69
Indoors, Environmentally Controlled	How often does this job require working indoors in environmentally controlled conditions?	68
Exposed to Minor Burns, Cuts, Bites, or Stings	How often does this job require exposure to minor burns, cuts, bites, or stings?	65
Spend Time Standing	How much does this job require standing?	62
Spend Time Bending or Twisting the Body	How much does this job require bending or twisting your body?	62

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Exposed to High Places	How often does this job require exposure to high places?	62
Outdoors, Under Cover	How often does this job require working outdoors, under cover (e.g., structure with roof but no walls)?	58
In an Enclosed Vehicle or Equipment	How often does this job require working in a closed vehicle or equipment (e.g., car)?	56
Importance of Repeating Same Tasks	How important is repeating the same physical activities (e.g., key entry) or mental activities (e.g., checking entries in a ledger) over and over, without stopping, to performing this job?	56
Physical Proximity	To what extent does this job require the worker to perform job tasks in close physical proximity to other people?	56
Spend Time Kneeling, Crouching, Stooping, or Crawling	How much does this job require kneeling, crouching, stooping or crawling?	54
Coordinate or Lead Others	How important is it to coordinate or lead others in accomplishing work activities in this job?	54
Spend Time Walking and Running	How much does this job require walking and running?	51
Responsibility for Outcomes and Results	How responsible is the worker for work outcomes and results of other workers?	50
Level of Competition	To what extent does this job require the worker to compete or to be aware of competitive pressures?	48
Letters and Memos	How often does the job require written letters and memos?	48
Spend Time Making Repetitive Motions	How much does this job require making repetitive motions?	47
Spend Time Climbing Ladders, Scaffolds, or Poles	How much does this job require climbing ladders, scaffolds, or poles?	46
Deal With Unpleasant or Angry People	How frequently does the worker have to deal with unpleasant, angry, or discourteous individuals as part of the job requirements?	40
Spend Time Keeping or Regaining Balance	How much does this job require keeping or regaining your balance?	39
Frequency of Conflict Situations	How often are there conflict situations the employee has to face in this job?	35

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Pace Determined by Speed of Equipment	How important is it to this job that the pace is determined by the speed of equipment or machinery? (This does not refer to keeping busy at all times on this job.)	31
Spend Time Sitting	How much does this job require sitting?	25
Wear Specialized Protective or Safety Equipment such as Breathing Apparatus, Safety Harness, Full Protection Suits, or Radiation Protection	How much does this job require wearing specialized protective or safety equipment such as breathing apparatus, safety harness, full protection suits, or radiation protection?	24
Degree of Automation	How automated is the job?	22

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Work Values and Needs

This section shows the information on the current work values for your selected occupation.

Work Value	Work Value Description	Rank By Extent (Out of 100)
Independence	Occupations that satisfy this work value allow employees to work on their own and make decisions. Corresponding needs are Creativity, Responsibility and Autonomy.	78
Support	Occupations that satisfy this work value offer supportive management that stands behind employees. Corresponding needs are Company Policies, Supervision: Human Relations and Supervision: Technical.	72
Relationships	Occupations that satisfy this work value allow employees to provide service to others and work with co-workers in a friendly non-competitive environment. Corresponding needs are Co-workers, Moral Values and Social Service.	56
Working Conditions	Occupations that satisfy this work value offer job security and good working conditions. Corresponding needs are Activity, Compensation, Independence, Security, Variety and Working Conditions.	50
Achievement	Occupations that satisfy this work value are results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment. Corresponding needs are Ability Utilization and Achievement.	45

Work Value	Work Value Description	Rank By Extent (Out of 100)
Recognition	Occupations that satisfy this work value offer advancement, potential for leadership, and are often considered prestigious. Corresponding needs are Advancement, Authority, Recognition and Social Status.	33

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Tools

This section shows common tools used by Refrigeration Mechanics and Installers.

Detailed Tool	Tool Group
Adjustable widemouth pliers	Adjustable widemouth pliers
Adjustable wrenches	Adjustable wrenches
Air compressors	Air compressors
Draft gauges	Air velocity and temperature monitors
Velometers	Air velocity and temperature monitors
Material alignment jigs	Alignment jig
Ammeters	Ammeters
Milliammeters	Ammeters
Anemometers	Anemometers
Acetylene torches	Blow torch
Bolt cutters	Bolt cutters
Calipers	Calipers
Vernier calipers	Calipers
Capacitance testers	Capacitance meters
Caulking guns	Caulking guns
Chalk lines	Chalk lines
Litmus papers	Chemical test strips or papers
Cold chisels	Cold chisels
Conduit benders	Conduit benders
Dial indicators	Dial indicator or dial gauge
Drill bit sets	Drill bit set
Electrical frequency indicators	Electrical frequency meters
Side cutting pliers	End cut pliers
Combustion analyzers	Explosimeters
Feeler gauges	Feeler gauges
Fish tapes	Fish tape
Air volume test equipment	Flow sensors
Air flow hoods	Flowmeters
Flowmeters	Flowmeters

Detailed Tool

Pitot tubes

Forklifts

Current simulators

Voltage simulators

Ground fault circuit interrupter GFCI testers

Glue guns

Safety goggles

Grease guns

Hacksaws

Hammers

Reamers

Hand sprayers

Hand trucks

Portable refractometers

Handheld thermometers

Water temperature gauges

Allen wrenches

Hoists

Hold down clamps

Hole saws

Transfer pumps

Infrared thermography cameras and display units

Jacks

Labeling machines

Ladders

Laser printers

Smoke testers

Transit levels

Bubble levels

Laser levels

Precision levels

Water levels

Fall arrest lines

Refrigerant leak detectors

Lug crimping tool dies

Manometers

Fin combs

Mechanical stethoscopes

Megohmmeters

Bandsaws

Tool Group

Flowmeters

Forklifts

Frequency calibrator or simulator

Frequency calibrator or simulator

GFI circuit testers

Glue guns

Goggles

Grease guns

Hacksaw

Hammers

Hand reamer

Hand sprayers

Hand trucks or accessories

Handheld refractometers or polarimeters

Handheld thermometer

Handheld thermometer

Hex keys

Hoists

Hold down clamps

Hole saws

Hydraulic pumps

Infrared imagers

Jacks

Label making machines

Ladders

Laser printers

Leak testing equipment

Level sensors or transmitters

Levels

Levels

Levels

Levels

Lifelines or lifeline equipment

Liquid leak detectors

Lug crimping tool dies

Manometers

Manual wire straighteners

Medical acoustic stethoscope or accessory

Megohmmeters

Metal band sawing machine

Detailed Tool

Programmable logic controllers PLC

Micrometers

Micron gauges

Multimeters

Laptop computers

Nut drivers

Volt-ohm meters VOM

Refrigerant oil pumps

Open end wrenches

Oxygen testers

Personal computers

Phase rotation meters

Pipe cutters

Tube cutters

Pipe wrenches

Platform lifts

Staging equipment

Plotters

Computer diagnostic devices

Dataloggers

Potentiometers

Cordless drills

Electric drills

Hand drills

Power drills

Flaring tools

Power saws

Reciprocating saws

Gas pressure gauges

Magnehelic gauges

Pressure simulators

Power washers

Crowbars

Psychrometers

Pullers

Knockout punches

Punches

Scrapers

Charging cylinders

Charging manifolds

Tool Group

Microcontrollers

Micrometers

Moisture meters

Multimeters

Notebook computers

Nut drivers

Ohmmeters

Oil pumps

Open end wrenches

Oxygen gas analyzers

Personal computers

Phasemeters

Pipe or tube cutter

Pipe or tube cutter

Pipe wrenches

Platform lift

Platform lift

Plotter printers

Portable data input terminals

Portable data input terminals

Potentiometers

Power drills

Power drills

Power drills

Power drills

Power flaring tool

Power saws

Power saws

Pressure indicators

Pressure indicators

Pressure indicators

Pressure or steam cleaners

Pry bars

Psychrometers

Pullers

Punches or nail sets or drifts

Punches or nail sets or drifts

Razor knives

Refrigerant compressors

Refrigerant compressors

Detailed Tool	Tool Group
Respirators	Respirators
Rulers	Rulers
Safety glasses	Safety glasses
Safety belts	Safety harnesses or belts
Safety harnesses	Safety harnesses or belts
Service manifold sets	Sampling manifolds
Scaffolding	Scaffolding
Scale rules	Scales
Image scanners	Scanners
Screw extractor sets	Screw extractors
Screwdrivers	Screwdrivers
Scribers	Scribers
Shackles	Shackle
Carbon dioxide CO2 testers	Single gas monitors
Carbon monoxide evaluators	Single gas monitors
Slings	Slings
Socket wrench sets	Socket sets
Soldering guns	Soldering iron
Soldering irons	Soldering iron
Decibel meters	Sound measuring apparatus or decibel meter
Valve wrenches	Specialty wrenches
Spectrometers	Spectrometers
Squares	Squares
Straightedges	Straight edges
Wire strippers	Stripping tools
Swaging tools	Swaging tools
Strobe tachometers	Tachometers
Tachometers	Tachometers
Tape measures	Tape measures
Telescoping boom trucks	Telescoping boom lift
Temperature simulators	Temperature calibrator or simulator
Temperature gauges	Temperature gauge
Humidity simulators	Temperature humidity testers
Belt tension indicators	Tension testers
Thermocouple testers	Thermocouple probes
Pipe dies	Threading dies
Pipe threaders	Threading dies
Tap sets	Threading taps
Tin snips	Tinners snips
Torque wrenches	Torque wrenches

Detailed Tool	Tool Group
Two way radios	Two way radios
Black lights	Ultraviolet UV lamps
Utility knives	Utility knives
Industrial vacuums	Vacuum cleaners
Compound gauges	Vacuum gauges
Vacuum gauges	Vacuum gauges
Recovery and recycle units	Vacuum pumps
Vacuum pumps	Vacuum pumps
Vibration analysis equipment	Vibration testers
Watt transducers	Wattmeters
Wattmeters	Wattmeters
Brazing equipment	Welder torch
Staging winches	Winches
Wire brushes	Wire brushes
Wire cutters	Wire cutters

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Technology

This section shows common technology used by Refrigeration Mechanics and Installers.

Detailed Technology	Technology Group
Database software	Data base user interface and query software
Microsoft Outlook	Electronic mail software
SAP	Enterprise resource planning ERP software
Facility energy management software	Facilities management software
Johnson Controls Metasys	Facilities management software
Building automation software	Industrial control software
Microsoft Office	Office suite software
Microsoft Excel	Spreadsheet software
Microsoft Word	Word processing software

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Licensing Information

There is no data available for Refrigeration Mechanics and Installers in Louisiana.

Typical Knowledge Categories

This section shows the most common knowledge categories required by Refrigeration Mechanics and Installers in order of importance. Click on a link in the Knowledge Category column to view more detailed information.

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Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<u>Mechanical</u>	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.	88
<u>Customer and Personal Service</u>	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.	70
<u>Computers and Electronics</u>	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	64
<u>Engineering and Technology</u>	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.	64
<u>Administration and Management</u>	Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.	63
<u>Physics</u>	Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes.	59
<u>English Language</u>	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	57
<u>Building and Construction</u>	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.	52
<u>Chemistry</u>	Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.	49
<u>Mathematics</u>	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.	49
<u>Design</u>	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.	48

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<u>Clerical</u>	Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.	44
<u>Production and Processing</u>	Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.	42
<u>Sales and Marketing</u>	Knowledge of principles and methods for showing, promoting, and selling products or services. This includes marketing strategy and tactics, product demonstration, sales techniques, and sales control systems.	42
<u>Public Safety and Security</u>	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.	40
<u>Personnel and Human Resources</u>	Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, labor relations and negotiation, and personnel information systems.	37
<u>Law and Government</u>	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	33
<u>Food Production</u>	Knowledge of techniques and equipment for planting, growing, and harvesting food products (both plant and animal) for consumption, including storage/handling techniques.	28
<u>Telecommunications</u>	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	28
<u>Economics and Accounting</u>	Knowledge of economic and accounting principles and practices, the financial markets, banking and the analysis and reporting of financial data.	23
<u>Psychology</u>	Knowledge of human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.	20

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Work Abilities Required

This section shows the results of a national survey listing the most common work abilities required by Refrigeration Mechanics and Installers in order of importance. Click on a link in the Work Ability column to view more detailed information.

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Arm-Hand Steadiness</u>	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	72
<u>Near Vision</u>	The ability to see details at close range (within a few feet of the observer).	72
<u>Problem Sensitivity</u>	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.	72
<u>Deductive Reasoning</u>	The ability to apply general rules to specific problems to produce answers that make sense.	69
<u>Inductive Reasoning</u>	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	69
<u>Information Ordering</u>	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	69
<u>Oral Expression</u>	The ability to communicate information and ideas in speaking so others will understand.	69
<u>Visualization</u>	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	69
<u>Finger Dexterity</u>	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	66
<u>Oral Comprehension</u>	The ability to listen to and understand information and ideas presented through spoken words and sentences.	66
<u>Manual Dexterity</u>	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	63
<u>Speech Recognition</u>	The ability to identify and understand the speech of another person.	63
<u>Visual Color Discrimination</u>	The ability to match or detect differences between colors, including shades of color and brightness.	60
<u>Control Precision</u>	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	56
<u>Extent Flexibility</u>	The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.	56
<u>Flexibility of Closure</u>	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	53
<u>Hearing Sensitivity</u>	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	53

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Selective Attention</u>	The ability to concentrate on a task over a period of time without being distracted.	53
<u>Speech Clarity</u>	The ability to speak clearly so others can understand you.	53
<u>Trunk Strength</u>	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without 'giving out' or fatiguing.	53
<u>Written Comprehension</u>	The ability to read and understand information and ideas presented in writing.	53
<u>Auditory Attention</u>	The ability to focus on a single source of sound in the presence of other distracting sounds.	50
<u>Category Flexibility</u>	The ability to generate or use different sets of rules for combining or grouping things in different ways.	50
<u>Gross Body Coordination</u>	The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.	50
<u>Gross Body Equilibrium</u>	The ability to keep or regain your body balance or stay upright when in an unstable position.	50
<u>Time Sharing</u>	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	50
<u>Written Expression</u>	The ability to communicate information and ideas in writing so others will understand.	50
<u>Far Vision</u>	The ability to see details at a distance.	47
<u>Fluency of Ideas</u>	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	47
<u>Multilimb Coordination</u>	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.	47
<u>Perceptual Speed</u>	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	47
<u>Speed of Closure</u>	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	47
<u>Static Strength</u>	The ability to exert maximum muscle force to lift, push, pull, or carry objects.	47
<u>Depth Perception</u>	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	44
<u>Mathematical Reasoning</u>	The ability to choose the right mathematical methods or formulas to solve a problem.	44

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Memorization</u>	The ability to remember information such as words, numbers, pictures, and procedures.	44
<u>Reaction Time</u>	The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.	44
<u>Sound Localization</u>	The ability to tell the direction from which a sound originated.	41
<u>Stamina</u>	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	38
<u>Wrist-Finger Speed</u>	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	38
<u>Glare Sensitivity</u>	The ability to see objects in the presence of glare or bright lighting.	31
<u>Number Facility</u>	The ability to add, subtract, multiply, or divide quickly and correctly.	31
<u>Originality</u>	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	31
<u>Dynamic Strength</u>	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	28
<u>Rate Control</u>	The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	28
<u>Night Vision</u>	The ability to see under low light conditions.	25
<u>Peripheral Vision</u>	The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	25
<u>Response Orientation</u>	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot, or other body part.	25
<u>Spatial Orientation</u>	The ability to know your location in relation to the environment or to know where other objects are in relation to you.	25
<u>Explosive Strength</u>	The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.	22
<u>Speed of Limb Movement</u>	The ability to quickly move the arms and legs.	22
<u>Dynamic Flexibility</u>	The ability to quickly and repeatedly bend, stretch, twist, or reach out with your body, arms, and/or legs.	16

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Work Interests

This section shows the results of a national survey listing the most common work interests for Refrigeration Mechanics and Installers in order of importance.

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
Realistic	Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.	100
Enterprising	Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.	33
Conventional	Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.	33

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Typical Work Styles

This section shows the most common work styles required by Refrigeration Mechanics and Installers in order of importance. Click on a link in the Work Style column to view more detailed information.

Work Style	Work Style Description	Rank by Importance (Out of 100)
Dependability	Job requires being reliable, responsible, and dependable, and fulfilling obligations.	83
Attention to Detail	Job requires being careful about detail and thorough in completing work tasks.	83
Analytical Thinking	Job requires analyzing information and using logic to address work-related issues and problems.	82
Integrity	Job requires being honest and ethical.	82
Persistence	Job requires persistence in the face of obstacles.	81
Initiative	Job requires a willingness to take on responsibilities and challenges.	80
Achievement/Effort	Job requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.	77
Innovation	Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.	76

Work Style	Work Style Description	Rank by Importance (Out of 100)
<u>Self Control</u>	Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.	76
<u>Stress Tolerance</u>	Job requires accepting criticism and dealing calmly and effectively with high stress situations.	75
<u>Cooperation</u>	Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.	74
<u>Independence</u>	Job requires developing one's own ways of doing things, guiding oneself with little or no supervision, and depending on oneself to get things done.	74
<u>Adaptability/Flexibility</u>	Job requires being open to change (positive or negative) and to considerable variety in the workplace.	69
<u>Leadership</u>	Job requires a willingness to lead, take charge, and offer opinions and direction.	66
<u>Concern for Others</u>	Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.	61
<u>Social Orientation</u>	Job requires preferring to work with others rather than alone, and being personally connected with others on the job.	54

Source: This information is based on O*NET™ data. O*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Related Occupations

This section shows a list of occupations related to Refrigeration Mechanics and Installers. Click an occupation title to see more information about that occupation.

Rank	Related Occupations	Duties	*Related By
1	<u>Electrical Power-Line Installers and Repairers</u> 🌟🌱	Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.	SOC4
2	<u>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</u> 🌟	Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	SOC4
3	<u>Manufactured Building and Mobile Home Installers</u>	Move or install mobile homes or prefabricated buildings.	SOC4
4	<u>Refractory Materials Repairers, Except Brickmasons</u>	Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits and ovens, using refractory materials.	SOC4

Rank	Related Occupations	Duties	*Related By
5	<u>Camera and Photographic Equipment Repairers</u>	Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.	SOC4
6	<u>Coin, Vending, and Amusement Machine Servicers and Repairers</u>	Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.	SOC4
7	<u>Control and Valve Installers and Repairers, Except Mechanical Door</u>	Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.	SOC4
8	<u>Fabric Menders, Except Garment</u>	Repair tears, holes, and other defects in fabrics, such as draperies, linens, parachutes, and tents.	SOC4
9	<u>Geothermal Technicians</u> 🟢	Perform technical activities at power plants or individual installations necessary for the generation of power from geothermal energy sources. Monitor and control operating activities at geothermal power generation facilities and perform maintenance and repairs as necessary. Install, test, and maintain residential and commercial geothermal heat pumps.	SOC4
10	<u>Helpers-- Installation, Maintenance, and Repair Workers</u> 🟡 🟢	Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers.	SOC4
11	<u>Home Appliance Repairers</u>	Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.	SOC4
12	<u>Industrial Machinery Mechanics</u> 🟢	Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.	SOC4
13	<u>Installation, Maintenance, and Repair Workers, All Other</u>	All installation, maintenance, and repair workers not listed separately.	SOC4
14	<u>Locksmiths and Safe Repairers</u>	Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.	SOC4
15	<u>Maintenance Workers, Machinery</u>	Lubricate machinery, change parts, or perform other routine machinery maintenance.	SOC4
16	<u>Mechanical Door Repairers</u> 🟡	Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.	SOC4
17	<u>Medical Equipment Repairers</u>	Test, adjust, or repair biomedical or electromedical equipment.	SOC4
18	<u>Musical Instrument Repairers and Tuners</u>	Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning.	SOC4

Rank	Related Occupations	Duties	*Related By
19	<u>Precision Instrument and Equipment Repairers, All Other</u>	All precision instrument and equipment repairers not listed separately.	SOC4
20	<u>Riggers</u>	Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.	SOC4
21	<u>Telecommunications Line Installers and Repairers</u>	Install and repair telecommunications cable, including fiber optics.	SOC4
22	<u>Watch Repairers</u>	Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Includes watchmakers, watch technicians, and mechanical timepiece repairers.	SOC4
23	<u>Boilermakers</u> 🟢	Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Work involves use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Inspect and repair boiler fittings, such as safety valves, regulators, automatic-control mechanisms, water columns, and auxiliary machines.	O*NET
24	<u>Commercial Divers</u> 🟡	Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.	O*NET
25	<u>Electricians</u> 🟡 🟢	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.	O*NET
26	<u>Elevator Installers and Repairers</u> 🟡	Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.	O*NET
27	<u>Heating and Air Conditioning Mechanics and Installers</u> 🟡 🟢	Install, service, or repair heating and air conditioning systems in residences or commercial establishments.	O*NET
28	<u>Millwrights</u> 🟡 🟢	Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.	O*NET
29	<u>Pipe Fitters and Steamfitters</u> 🟡 🟢	Lay out, assemble, install, or maintain pipe systems, pipe supports, or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems.	O*NET

Rank	Related Occupations	Duties	*Related By
30	<u>Plumbers</u> 🌟 🌱	Assemble, install, or repair pipes, fittings, or fixtures of heating, water, or drainage systems, according to specifications or plumbing codes.	O*NET
31	<u>Aircraft Mechanics and Service Technicians</u>	Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.	O*NET
32	<u>Automotive Glass Installers and Repairers</u>	Replace or repair broken windshields and window glass in motor vehicles.	O*NET
33	<u>Automotive Master Mechanics</u>	Repair automobiles, trucks, buses, and other vehicles. Master mechanics repair virtually any part on the vehicle or specialize in the transmission system.	O*NET
34	<u>Chemical Plant and System Operators</u> 🌱	Control or operate entire chemical processes or system of machines.	O*NET
35	<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🌱	Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.	O*NET
36	<u>Electrical and Electronics Repairers, Powerhouse, Substation, and Relay</u>	Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.	O*NET
37	<u>Gaming Surveillance Officers and Gaming Investigators</u>	Act as oversight and security agent for management and customers. Observe casino or casino hotel operation for irregular activities such as cheating or theft by either employees or patrons. May use one-way mirrors above the casino floor, cashier's cage, and from desk. Use of audio/video equipment is also common to observe operation of the business. Usually required to provide verbal and written reports of all violations and suspicious behavior to supervisor.	O*NET
38	<u>Gas Plant Operators</u>	Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.	O*NET
39	<u>Maintenance and Repair Workers, General</u> 🌟 🌱	Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs.	O*NET
40	<u>Mobile Heavy Equipment Mechanics, Except Engines</u>	Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.	O*NET

Rank	Related Occupations	Duties	*Related By
41	<u>Pest Control Workers</u> 🌟	Apply or release chemical solutions or toxic gases and set traps to kill or remove pests and vermin that infest buildings and surrounding areas.	O*NET
42	<u>Ship Engineers</u>	Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.	O*NET
43	<u>Signal and Track Switch Repairers</u>	Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.	O*NET
44	<u>Telecommunications Equipment Installers and Repairers, Except Line Installers</u>	Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings.	O*NET

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Source: **Related By: O*NET™ - The Occupational Information Network. O*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.
SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

Career Ladder

This section shows the top 10 occupations and the corresponding individuals in the workforce system who were previously Refrigeration Mechanics and Installers and have changed their occupation over the last 5 years.

Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
<u>Heating and Air Conditioning Mechanics and Installers</u> 🌟 🌱	61	39.87%
<u>Maintenance and Repair Workers, General</u> 🌟 🌱	28	18.30%
<u>Construction Laborers</u> 🌟 🌱	14	9.15%
<u>Helpers--Installation, Maintenance, and Repair Workers</u> 🌟 🌱	11	7.19%
<u>Electricians</u> 🌟 🌱	10	6.54%
<u>Boilermakers</u> 🌱	6	3.92%
<u>Electrical and Electronics Repairers, Commercial and Industrial Equipment</u> 🌱	6	3.92%
<u>Driver/Sales Workers</u>	6	3.92%
<u>Laborers and Freight, Stock, and Material Movers, Hand</u> 🌟 🌱	6	3.92%
<u>First-Line Supervisors of Mechanics, Installers, and Repairers</u> 🌱	5	3.27%

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Source: Individuals with active résumés in the workforce system.



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