



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

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करियर शीट · CAREER SHEET

रेफ्रिजरेशन तकनीशियन

Refrigeration Technicians, also known as refrigeration mechanics, install, repair, and troubleshoot refrigeration systems in homes and businesses. They work on HVAC units as well as climate-control systems like cold storage...



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/voc-6420

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Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी · मास्टर ट्रेनर
Principal, GSSS Jethantri · Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

Refrigeration Technicians, also known as refrigeration mechanics, install, repair, and troubleshoot refrigeration systems in homes and businesses. They work on HVAC units as well as climate-control systems like cold storage units, ice machines, and beverage-cooling equipment, and specialise in installing, testing, servicing, and repairing these systems.

2 At a glance

Minimum qualification	Class 8/10 pass + age 18
NSQF Level	Level 3 or 4
Work Hours	8-9 hrs/day, 5-6 days/week
Starting salary	About ₹20,000/month

3 What you need

INTERESTS

- You like paying close attention to detail while working.
- You prefer following clear instructions and working as per systems/manuals.
- You enjoy analysing problems and situations.
- You enjoy assembling and disassembling parts and putting machines together.

ABILITIES

- A habit of paying attention to detail, to avoid gas leaks or wiring errors.
- A disciplined habit of following clear instructions and safety protocols.
- The ability to analyse problems/situations and find logical solutions.

KEY SKILLS

- Installation of refrigeration and air conditioning systems
- Gas charging, leak detection, and recovery

- Basic understanding of electrical wiring and circuit diagnosis
- Preventive maintenance and troubleshooting
- Servicing compressors, condensers, and evaporators
- Customer service and service reporting

4 How to get there

- 1 After completing Class 8 and turning 18, enroll in the NSQF Level 3 'Refrigerator Repair and Maintenance' training.
- 2 Or, after Class 10, opt for the NSQF Level 4 'Field Technician – Refrigeration' training; an ITI course in the AC/Refrigeration trade is an added advantage.
- 3 Complete training through an NSDC/JSS centre, ITI, or RSLDC and gain hands-on practical experience.
- 4 Do an internship/apprenticeship with a service centre or refrigeration company.
- 5 Gain 1-2 years of practical experience (most employers prefer this).
- 6 Start as an assistant technician and progress with experience.

MAIN EXAMS

- There is no separate entrance exam; candidates must clear the ITI/NSQF skill-assessment conducted by the Power Sector/Electronics & Hardware Sector Skill Council.

5 Where to study

GOVERNMENT INSTITUTES

- NSDC - प्रशिक्षण केंद्र खोजें — All India (<https://www.nsdcindia.org/find-nsdc-training-centre>)
- जन शिक्षण संस्थान (JSS) — All India (<https://nsdcindia.org/find-nsdc-training-centre-jss/>)
- राजस्थान कौशल एवं आजीविका विकास निगम (RSLDC) — Rajasthan (<https://livelihoods.rajasthan.gov.in/rsldc/#/home/dptHome/403>)
- सरकारी ITI, रेफ्रिजेशन व एयर कंडीशनिंग मैकेनिक ट्रेड — Jaipur and other districts, Rajasthan

PRIVATE INSTITUTES

- अजमेरा ITI - AC व रेफ्रिजेशन प्रशिक्षण — Jaipur, Rajasthan (<https://ajmeraiti.com/ac-refrigeration-training-in-jaipur-ajmera-iti/>)
- भूषण ITI - रेफ्रिजेशन व एयर कंडीशनिंग — Jaipur, Rajasthan (<https://bhushaniti.com/refrigeration-air-conditioning/>)

ONLINE

- स्किल इंडिया डिजिटल — Online (<https://www.skillindiadigital.gov.in/>)

FEES

Government ITI/NSDC/RSLDC training fees are very low (around ₹500 - ₹3,000/year) or free. Private ITIs/training centres can charge roughly ₹10,000 - ₹40,000/year.

SCHOLARSHIPS

- राष्ट्रीय छात्रवृत्ति पोर्टल (NSP) – ITI/बोकेशनल छात्रवृत्ति (<https://scholarships.gov.in/fresh/onlineInstituteSearchIndex>)
- Buddy4Study – ITI/व्यावसायिक प्रशिक्षण छात्रवृत्तियाँ (<https://www.buddy4study.com/article/iti-scholarships>)
- प्रधानमंत्री कौशल विकास योजना (PMKVY)

6 What the work is like

WHERE YOU WORK

Domestic refrigerator and AC servicing, commercial refrigeration (shops, restaurants, hospitals), cold storage units, and manufacturing companies.

WORK CULTURE

Typically 8-9 hours a day, 5-6 days a week, with demand and overtime peaking in summer. Technicians often travel to a customer's home or shop. The sector also offers opportunities for persons with disabilities.

WHO HIRES

- | | |
|---|---|
| • AC/refrigerator service companies (Remi Sales & Engineering, Voltas, Blue Star, etc.) | • Cold storage and warehousing companies |
| • Hospitals, hotels, and restaurants (commercial refrigeration) | • Self-employment/own repair shop |
| • Food processing and dairy industries | • Railways and public transport (AC coach maintenance) |
| • Indian Railways (RRB ITI/technical-trade recruitment, railway workshops) | • Defence & public-sector undertakings (HAL, BEL, BHEL, Ordnance/Munitions India) |
| • Agniveer scheme (Army technical/tradesman, Navy, Air Force) | |

DEMAND (2026)

Demand for AC/refrigeration technicians is steadily rising in India due to increasing temperatures, urbanisation, and expanding cold-storage infrastructure. In hot states like Rajasthan, servicing demand peaks especially during summer.

7 Career growth

- 1 Refrigeration Technician
- 2 Senior Technician
- 3 Lead Technician/Service Supervisor

EARNINGS

Starting	₹15,000 - ₹20,000/माह
Mid level	₹20,000 - ₹25,000/माह
Senior level	₹30,000+/माह (लीड तकनीशियन/स्वरोज़गार)

Government NCS data reports pay between ₹20,000 - ₹25,000/month; Indeed/Naukri listings show that experienced technicians and those running their own repair shop can earn considerably more, especially during peak summer months.

8 The good parts · The challenges**The good parts**

- Easy entry point — you can start earning even after Class 8.
- Strong potential for self-employment or opening your own repair shop.
- Steady year-on-year demand due to hot climate and expanding cold-chain infrastructure.

The challenges

- Safety risks are involved when working with refrigerant gas and electricity.
- Workload and overtime increase significantly during the summer season.
- Income can fluctuate seasonally, dropping when servicing demand falls in winter.

9 Real-life journeys

इमरान सरकार (Imran Sarkar)

Refrigeration Service Engineer, Remi Sales & Engineering Pvt. Ltd.

Imran Sarkar always wanted to build a technical career after college. He opted for a course in air conditioning and refrigeration engineering, and today he works as a Refrigeration Service Engineer with Remi Sales & Engineering Pvt. Ltd., where he installs and services industrial and commercial refrigeration systems.

NCS/YouTube · <https://youtube.com/watch?v=MbWsR-WDbxA>

सुमति बडाइक (Sumati Badaik)

AC Service Technician and Owner, Laxmi Refrigeration, Rourkela

Sumati Badaik has worked as an AC service technician in Rourkela for over 10 years and runs her own workshop, 'Laxmi Refrigeration.' She took part in GIZ Proklima's refrigeration training, after which several other technicians from her own workshop also completed the same training. She says, 'The intense training taught me practically how to prevent gas leakages and perform gas recovery.'

Green Cooling Initiative (GIZ Proklima) · <https://www.green-cooling-initiative.org/news-media/news/news-detail/2024/10/24/experiences-by-women-technicians-in-the-indian-rac-service-sector>

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Fitter (Processing)
- Aquaculture Worker
- Fish & Seafood Processor

11 Sources & further reading

1. Rajasthan Career Guidance Portal — Refrigeration Technician — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b0%e0%a5%87%e0%a4%ab%e0%a5%8d%e0%a4%b0%e0%a4%bf%e0%a4%9c%e0%a4%b0%e0%a5%87%e0%a4%b6%e0%a4%a8-%e0%a4%a4%e0%a4%95%e0%a4%a8%e0%a5%80%e0%a4%b6%e0%a4%bf%e0%a4%af%e0%a4%a8/>
2. ITI Refrigeration & Air Conditioning course — CollegeDekho — <https://www.collegedekho.com/courses/iti-trade-in-refrigeration-air-conditioning>
3. Experiences of women technicians in India's RAC service sector — Green Cooling Initiative — <https://www.green-cooling-initiative.org/news-media/news/news-detail/2024/10/24/experiences-by-women-technicians-in-the-indian-rac-service-sector>



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