

Mechanic Refrigeration and Air Conditioning Unit

Aliases: Electrical Mechanic, Refrigeration Mechanic, Air Conditioning Mechanic, Electrician, Refrigerator Technician, Air Conditioning Technician

Industry/Sector(s): Construction

JOB DESCRIPTION ¹

The tasks an Mechanic Refrigeration and Air Conditioning Unit is expected to perform include:

- Installing and repairing refrigeration or air conditioning units
- Replacing defective parts, re-seating valves, refitting coils, insulating, requiring electrical connections, soldering etc.
- Installing at site assembled air conditioning unit and refrigerators giving necessary power connections
- Making changes to units as necessary
- Examining faulty equipment
- Dismantling equipment if required
- Replacing or repairing defective parts to units by re-seating valves, refitting coils, re-insulating system, etc.
- Over hauling and reassembling units after cleaning components
- Replacing defective or worn out parts of pumps, compressors, motors, etc.
- Removing faulty sealed units or sub-units of refrigerators or air conditioning plants
- Conducting vacuum and pressure test of pipe lines and charging system with fresh refrigerant
- Setting plant to desired cooling conditions, preventing leakage and ensuring attainment and maintaining required temperature
- Getting burnt out motors or generators repaired and installing repaired ones to plant giving necessary electrical connections

WORK ENVIRONMENT ^{1, 2}

- It is not a desk job
- Need not handle a team
- Travelling is part of this job role
- Part-time work and contractual jobs are available
- Work from home option may be available

Working hours

- Organizations usually work for 5/6 days a week for 8/9 hours everyday. This may vary from organization to organization
- Shift system may be available
- Overtime may be required
- Being self-employed is also an option. In this case, the working hours and days will be flexible

Is the job suitable for a candidate with special needs?

This job is suitable for candidates with One Leg (OL), Low Vision (LV) and Hearing Impaired (HH)

This may vary from organization to organization

EDUCATIONAL QUALIFICATIONS AND TRAINING ³

Preferably, graduation in mechanical engineering

KEY COMPETENCIES ¹

- Knowledge of installing and repairing refrigeration or air conditioning units
- Knowledge of replacing defective parts, re-seating valves, refitting coils, insulating, requiring electrical connections, soldering, etc.
- Ability to make changes to units as necessary
- Ability to examine and dismantle faulty equipment
- Knowledge of over hauling and reassembling units
- Ability to replace defective or worn out parts of pumps, compressors, motors, etc.
- Ability to remove faulty sealed units or sub-units of refrigerators or air conditioning plants
- Proficient in conducting vacuum and pressure test of pipe lines and charging system
- Proficient in setting plant to desired cooling conditions, preventing leakage and ensuring attainment and maintaining required temperature
- Ability to get burnt out motors or generators repaired and installing repaired ones to plant giving necessary electrical connections

DESIRABLE COMPETENCIES ¹

- Hard-working
- Result-oriented

AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

- Indian Institute of Technology Madras
<https://www.iitm.ac.in>

- Vellore Institute of Technology
<http://www.vit.ac.in/>

- Birla Institute of Technology (BIT)
<https://www.bitmesra.ac.in/>

AVAILABLE SKILL TRAINING SCHEMES/SCHOLARSHIPS

For scholarship and schemes, use further links like:

- <https://scholarships.gov.in/>

SAMPLE OF TRAINING AND LEARNING COURSES

<https://targetstudy.com/courses/engineering/>

CAREER PROGRESSION PATH ⁴

Assistant Mechanic → **Mechanic Refrigeration and Air Conditioning Unit** → Supervisor → Contractor

The progression is indicative

EXPECTED EARNINGS ³

- For candidates with experience - Rs 20,000 to Rs 45,000 per month

These figures are indicative and subject to change

REQUIRED WORK EXPERIENCE ³

Generally, 1-6 years of experience required

PROBABLE EMPLOYERS ³

- Self-employed
- Factories
- Workshops
- Power house
- Business
- Residential premises across India

KEYWORDS

- Electrical Mechanic
- Refrigeration Mechanic
- Air Conditioning Mechanic
- Electrician
- Refrigerator Technician
- Air Conditioning Technician

OCCUPATIONAL CODES AND STANDARDS

Standard	Code	Description
NCO 2015	7127.0100	Mechanic Refrigeration and Air Conditioning Unit
ISCO 2008	7127	Air Conditioning and Refrigeration Mechanics
NIC 2008	33200	Installation of industrial machinery and equipment
QP Reference	Not available	Not available
NSQF	Not available	Not available

REFERENCES

1	National Classification of Occupations Division 7
2	http://www.ccdisabilities.nic.in/page.php?s=reg&t=def&p=list_jobsNew
3	https://www.naukri.com/job-listings-HVAC-Mechanical-Engineer-Urgent-Opening--Pentagon-Global-Solutions-Limited--Every-Location-Allover-India-Allover-World--1-to-6-years-030316008448?src=jobsearchDesk&sid=14746440508188&xp=13&qp=air%20condition%20mechanic&srcPage=s
4	http://dget.nic.in/upload/uploadfiles/files/publication/Des-Div-7.pdf