



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

हाइड्रोपोनिक्स तकनीशियन

Hydroponics is the technique of growing plants in water-based nutrient solutions instead of soil (using media like coco-coir, perlite and vermiculite). A hydroponics technician sets up and maintains hydroponic farms and looks...



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-6438

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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

Hydroponics is the technique of growing plants in water-based nutrient solutions instead of soil (using media like coco-coir, perlite and vermiculite). A hydroponics technician sets up and maintains hydroponic farms and looks after plant care, harvesting and marketing.

2 At a glance

Minimum qualification	10+2 or Class 10+ITI + NSQF L3, or agriculture/horticulture degree
Duration	Certificate 3–6 mo; degree 3–4 yrs
Avg salary	₹2.5–7 LPA
Work mode	Greenhouse/farm, technical + field

3 What you need

INTERESTS

- Interest in science
- Wanting to start your own business
- Enjoying gardening

ABILITIES

- Scientific and numerical aptitude
- Hands-on technical skill
- Observation and attention to detail

KEY SKILLS

- Hydroponic system setup and operation
- Plant care and crop monitoring
- Greenhouse/climate control
- Marketing and farm business
- Nutrient solution and pH/EC management
- Pest/disease management (IPM)
- Harvesting and post-harvest handling

4 How to get there

- 1 Complete 10+2 in any stream, or an ITI after Class 10, or gain 2 yrs work experience
- 2 Enrol in an NSQF L3 (Hydroponics Technician) course
- 3 Or complete a degree in agriculture/horticulture/botany
- 4 Gain internship/experience at an agritech farm/startup
- 5 Start your own hydroponic farm with subsidy/startup schemes after gaining experience
- 6 Check course duration before enrolling

MAIN EXAMS

- ICAR AIEEA / CUET (for agriculture/horticulture degree)
- ASCI/NSQF trade certification

5 Where to study

GOVERNMENT INSTITUTES

- महाराणा प्रताप कृषि एवं प्रौद्योगिकी विश्वविद्यालय (MPUAT) — Udaipur (<https://www.mpuat.ac.in>)
- श्री कर्ण नरेंद्र कृषि विश्वविद्यालय (SKNAU) — Jobner, Jaipur
- ICAR-भारतीय बागवानी अनुसंधान संस्थान (IIHR) — Bengaluru
- कृषि विज्ञान केंद्र (KVK) — Rajasthan

PRIVATE INSTITUTES

- राइज़ हाइड्रोपोनिक्स / निजी हाइड्रोपोनिक्स प्रशिक्षण केंद्र — Ahmedabad / Across India (<https://risehydroponics.in>)
- NSDC/ASCI मान्यता-प्राप्त एग्रीटेक केंद्र — Across India

ONLINE

- Skill India Digital — Online (<https://www.skillindiadigital.gov.in>)
- स्वयम (SWAYAM) — Online (<https://swayam.gov.in>)
- ICAR e-Krishi Shiksha — Online

FEES

Government training is largely free/low-cost; private hydroponics courses cost ₹5,000–₹50,000. Setting up a hydroponic unit needs capital, for which agri-startup and subsidy schemes are available. Figures are indicative.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- RKVY-RAFTAAR Agri-Startup Grants (<https://rkvy.da.gov.in>)
- Buddy4Study (Vocational) (<https://www.buddy4study.com>)
- SJE Rajasthan Scholarships (<https://sje.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

Agri-tech startups, government agriculture departments, agri companies and greenhouses; own business also possible.

WORK CULTURE

This is not a desk job; local travel is involved; part-time/contract work is possible; about 6 days a week, ~9 hours, with possible overtime/shifts; opportunities exist for persons with disabilities too.

WHO HIRES

- | | |
|---|---|
| • Agri-tech startups and hydroponics companies | • Greenhouses and protected-cultivation farms |
| • Government agriculture/horticulture departments | • Fresh-produce suppliers to hotels/retail |
| • Agri-input and consultancy companies | • Self-employment: own hydroponic farm |

DEMAND (2026)

In water-scarce Rajasthan, soil-less, water-saving hydroponics is highly relevant; rising demand for pesticide-free and exotic vegetables and the growth of agri-tech startups are fast increasing demand for trained technicians and agri-entrepreneurs.

7 Career growth

- 1 Assistant Technician

- 2 Hydroponics Technician / Farmer
- 3 Hydroponics Farm Manager
- 4 Agri-preneur / Consultant

EARNINGS

Starting	₹2-3 लाख/वर्ष
Mid level	₹4-6 लाख/वर्ष
Senior level	₹8 लाख+/वर्ष (मालिक/उद्यम)

Income grows with farm size and entrepreneurship; figures are indicative.

8 The good parts · The challenges

The good parts

- Modern, water-saving and future-oriented
- Strong scope for entrepreneurship
- Clean, technology-based farming

The challenges

- High setup cost and technical know-how needed
- Dependence on power/systems
- Market has to be developed

9 Real-life journeys

S Subba Lakshmi

Founder, Shudh Green, Kurnool (Andhra Pradesh)

Former botany lecturer Subba Lakshmi used a ₹4 lakh grant from ANGRAU agricultural university to start 'Shudh Green', which makes customised home hydroponic kits for growing soil-less vegetables and leafy greens.

Vertical Farm Daily · <https://www.verticalfarmdaily.com/article/9672682/india-woman-led-startup-finding-success-in-hydroponics/>

Meet Patel

Co-founder, Rise Hydroponics, Ahmedabad

From a farming family, Meet Patel and his partners founded 'Rise Hydroponics' in 2020, which builds soil-less farms across India and has trained over 35,000 people in hydroponics.

The Better India · <https://thebetterindia.com/307986/ahmedabad-friends-offer-training-earn-crores-with-rise-hydroponics-startup/>

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.

- AC Technician
- Electrician (General)
- Handicraft Retail Store Manager

11 Sources & further reading

1. Rajasthan Career Guidance (source) — <https://cg.rajasthan.gov.in/careerguidance/>
2. MPUAT, Udaipur — <https://www.mpuat.ac.in>
3. ICAR-IIHR — <https://www.iihr.res.in>
4. National Horticulture Board (NHB) — <https://www.nhb.gov.in>
5. RKVY-RAFTAAR — <https://rkvy.da.gov.in>



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