

CAREER EMPLOYABILITY & FUTURE-READINESS REPORT

Wireman: how employable, and how future-proof, is this trade?

India's electrical infrastructure is expanding faster than at any point in its post-independence history, and the Wireman trade sits at the physical core of that expansion. The central question is whether the hands-on, site-specific nature of wiring work protects it from the automation wave now reshaping white-collar and routine-cognitive employment, and what a Wireman graduate can realistically expect in pay, placement, and long-run career durability.

65.1 /100

COURSE EMPLOYABILITY SCORE (CES V2)

Moderate employability, scored across all four CES pillars (\$02).

65.1^P

CES score out of 100,
Moderate employability band
(Lakshya CES model)

523 GW¹

India's installed power
capacity as of Dec 2025,
requiring 3.78 million power
professionals by 2032 (IBEF /
National Electricity Plan)

USD 7 bn²

India electrical wires and
cables market size in 2025,
growing to USD 11.3 bn by
2034 at 5.31% CAGR (IMARC
Group)

45.95%³

ITI graduate employability rate
2025, up from 41% in prior
year (India Skills Report 2025)

Subject: the "Wireman" CTS trade · Compiled from NSQF program spec + independent third-party research (see Sources).

Can AI or automation replace this job? The honest answer.

Automation research consistently finds that physical, site-variable tasks are among the hardest to displace. The Wireman role is dominated by exactly such tasks: reading on-site conditions, threading cables through confined spaces, terminating conductors safely, and verifying live circuits. That does not make the trade immune, but it does place it well below the displacement risk carried by data-entry or clerical work.

The risk, stated plainly

The ILO's 2025 Generative AI and Jobs index found that one in four jobs globally faces some exposure to GenAI transformation, with higher-income, cognitively intensive occupations at greatest risk ⁴. For physical trade workers, the ILO notes that GenAI exposure 'declines with tasks of physical nature, which are more prominent among occupational groups 4-9' ⁴. McKinsey's automation research estimates that physical occupations in construction and infrastructure may still account for close to 31% of time-spent even after automation adoption peaks, precisely because unpredictable site conditions resist robotic standardisation ⁵. Frey and Osborne's foundational 2013 study, which rated 47% of US jobs as at risk, placed electricians significantly lower on the risk index than administrative or routine-production roles, on account of the dexterity, problem-solving, and situational judgment required ⁶.

What automates vs what stays human

THE TASKS AUTOMATION IS TAKING

- Generating wiring diagrams and circuit layouts from building specifications using CAD/AI tools ⁵
- Scheduling preventive maintenance and predicting cable degradation using IoT sensor data and AI analytics ⁴
- Inventory management and materials estimation for projects, increasingly handled by ERP and AI platforms ⁵
- Routine continuity and insulation resistance test reporting, where smart testers log and auto-format results ⁴
- Basic fault-tree analysis on building management systems with pre-mapped circuits ⁵
- Administrative work such as work permits, compliance paperwork, and safety checklists via digital workflow tools ⁴

THE WORK THAT STAYS HUMAN

- Physical cable pulling, conduit bending, and conductor termination in confined, irregular, or live-circuit environments where robotic access is impractical ^P
- Reading and adapting to as-built site conditions that differ from drawings, requiring real-time judgment no current robot can exercise safely ⁵
- Installation of wiring systems in high-rise buildings, industrial plants, and renewable energy arrays under live-work safety protocols ^P
- Troubleshooting intermittent faults in complex circuits where physical probing, smell, and tactile feedback still outperform remote diagnostics ^P
- Connecting HT/LT panels, MCCBs, ACBs, VCBs, contactors, relays, and meters with correct torque and ferrule identification ^P
- Working safely at height, in enclosed spaces, and under extreme heat or rain conditions that current automation hardware cannot tolerate cost-effectively ⁵

The resilient anchors

31% ⁵

Share of time in physical trades still expected to be spent on human-performed physical work even at peak automation adoption (McKinsey MGI)

25% ⁴

Global share of jobs exposed to GenAI transformation; physical trades fall below this average per the ILO Occupational Exposure Index (ILO 2025)

3.78mn ¹

Power professionals India will need by 2032 per the National Electricity Plan, underpinning sustained demand for site-level electrical workers

Physical dexterity and site judgment keep automation risk moderate, not high.

No robot currently available in India at affordable cost can pull cables through conduit, identify a burnt conductor by smell, or safely terminate a live LT panel connection in a rain-exposed site. Those remain the core of daily wireman work ^{5P}. The genuine risk is not displacement but task-level change: planning, reporting, and testing tasks will increasingly be assisted by software, meaning wiremen who resist learning digital tools will see their productivity fall relative to peers who embrace them.

The net picture is moderate risk with a clear mitigation path. A wireman who pairs the NTC credential with digital multimeter proficiency, smart-meter installation skills, and basic solar PV termination training positions themselves for India's expanding green-energy buildout, where physical wiring work is, if anything, growing faster than the available workforce ^{7P}.

Automation exposure by task

Task in this trade	Automation risk	How this trade / program is positioned
Generating wiring diagrams from specs	High	CAD and AI design tools handle this; wireman value lies in executing, not designing ⁵
Automated continuity / IR testing and reporting	Moderate	Smart testers log results automatically; wireman still physically sets up the test ^P
Materials estimation and scheduling	Moderate	ERP/AI handles arithmetic; wireman judgment on site conditions still required ⁵
Cable pulling, conduit bending, conductor termination	Lowest	Physically demanding, spatially variable; robotics not viable at site scale in India ^{5P}
Panel wiring: MCCBs, contactors, relays, ferrule ID	Lower	High dexterity, safety-critical; experienced wiremen hold strong advantage ^P
On-site fault diagnosis in live or complex circuits	Lower	Requires physical probing, situational awareness, and safety judgment ^P
High-rise and industrial site installation under live-work protocols	Lowest	Environmental variability and safety liability keep human workforce essential ^P

How to read these numbers. Automation risk percentages in academic studies reflect task-level analysis conducted primarily in high-income economies with more mature robot adoption. India's infrastructure constraints, cost of robotics relative to labour costs, and the physical complexity of its construction and power-distribution environments mean real-world displacement will lag global averages by several years ⁴⁶. These numbers are directional signals, not precise predictions.

02 THE COURSE EMPLOYABILITY SCORE (CES)

How this trade scores on Lakshya's employability metric

The Lakshya Capital Employability Score (CES) for the Wireman trade is 65.1 out of 100, placing it in the Moderate employability band, the second-highest of four bands. This reflects genuine, measurable demand from the power, construction, and manufacturing sectors, a well-established NSQF Level 4 credential with national recognition, and meaningful government policy backing, balanced against limited live-hiring data, low salary transparency in the available job listings, and an ITI graduate employability rate that, while improving, still leaves room for structural strengthening. Scored on the evidence in this report, this role earns a **CES of 65.1 / 100, "Moderate employability."**

CES Pillar (CES v2)	Weight	What it measures
Training Quality	0.30	Regulatory recognition and licensure of the qualification
Market Dynamics	0.30	Demand, salary band, sector trajectory, automation possibility and displacement risk
Placement Outcome	0.25	Whether the market actually hires this role: live employers, openings, pay and recency

CES Pillar (CES v2)	Weight	What it measures
Government Support	0.15	Migration pathways, federal frameworks and policy backing the role

Score bands: ≥80 High employability (full financing exposure) · ≥60 Moderate · ≥40 Uncertain outcomes · below that Weak job linkage. Framework: CES v2.

Market Dynamics, by sub-signal

Sub-signal	Score/100	Sub-weight	Conf
Demand	56	0.40	0.65
Salary (vs country floor)	80	0.30	0.17
Sector trajectory	80	0.15	0.88
Automation possibility	50	0.10	0.30
Displacement risk	50	0.05	0.30
Market Dynamics composite	66	n/a	0.49

The four pillars, scored

CES pillar	Score	Conf	Weight	Evidence
Training Quality	65	0.95	0.300	Score 65/100: The Wireman CTS 2.0 program is a 2-year, 4-semester NSQF Level 4 course (some sources note it is classified at Level 5 in updated curricula) awarding the NTC from NCVT, recognised nationally and internationally ^P .
Market Dynamics	66	0.49	0.300	Score 65.75/100: Driven by a strong sector subscore (80/100) and salary subscore (80/100), reflecting India's expanding power and construction sectors; demand subscore (55.62/100) is held back by limited live-hiring data volume ^P .
Placement Outcome	61	0.40	0.250	Live market hiring of the role: 10 openings · 12 employers · 2 with pay · 19 recent postings
Government Support	70	0.90	0.150	Score 70/100: Active backing through RDSS, DDUGJY, Make in India, PLI schemes, and Skill India mission, all of which directly drive demand for certified electrical installation workers ⁸⁹ .

Composite (applied weights, renormalised over scored pillars): $65 \times 0.30 + 66 \times 0.30 + 61 \times 0.25 + 70 \times 0.15 = 65.1$. Confidence 1.00 · evidence 19 clean / 20 rejected · 7 sources.

COURSE EMPLOYABILITY SCORE (CES V2)

65.1 / 100, "Moderate employability"

The 65.1 CES reflects a trade where underlying market fundamentals are sound (large, growing electrical infrastructure sector, NTC credential, government policy support scoring 70/100) but where live-hiring transparency is thin: only 10 active listings from 12 employers were captured, with just 2 showing salary data ^P. The placement outcome pillar (61.4/100) reflects this data gap rather than an absence of jobs; wireman hiring is heavily concentrated in informal referral and contractor networks that do not advertise on mainstream job boards.

To move toward the High employability band, the most direct route is to stack the NTC with a Suryamitra solar installation certificate or a smart-meter technician certification under RDSS, both government-backed and employer-valued. Pursuing an apprenticeship under the National Apprenticeship Promotion Scheme (NAPS) adds formal employer record that directly strengthens placement outcome scores ^{P8}.

Pillar scores map cited evidence to the published CES v2 rubric; the live figure refreshes as cohort outcomes feed Lakshya's engine.

India's power build-out creates sustained demand for installation workers.

India's power sector is undergoing the largest capital expansion in its history. Every new substation, solar array, residential complex, and industrial plant requires qualified wiremen to install, terminate, and commission electrical systems.

India's installed power capacity reached 523.79 GW as of December 2025, with the National Electricity Plan projecting demand of 458 GW by 2032, requiring an estimated 3.78 million power professionals to be in service by that date ¹. The government's 500 GW non-fossil fuel target by 2030 is already generating large-scale renewable deployment: solar capacity stood at 135.81 GW and wind at 54.51 GW as of December 2025 ¹. The downstream consequence for wiremen is clear: every gigawatt of solar or wind installed requires physical cable management, panel wiring, and metering connections at the site level ⁷. The India electrical wires and cables market was valued at USD 7.0 billion in 2025 and is projected to reach USD 11.3 billion by 2034 (CAGR 5.31%), driven by urbanisation, the Power for All initiative, and renewable integration ². In renewable energy alone, the sector's share of overall job creation surged from 8.5% in FY23 to 23.7% in FY24, with approximately 1.7 million new jobs expected in the next three years ⁷. Government schemes such as the Revamped Distribution Sector Scheme (RDSS) and the earlier DDUGJY are actively recruiting wiremen and linemen for distribution network upgrades across every state ¹⁰.

3.78 mn¹

Power professionals India will need by 2032 per the National Electricity Plan 2022-32 (IBEF)

23.7%⁷

Renewable energy sector's share of job creation in FY24, up from 8.5% in FY23 (PV Magazine India)

USD 11.3 bn²

Projected India electrical wires and cables market size by 2034 at 5.31% CAGR (IMARC Group)

04 LIVE HIRING EVIDENCE (2025/26)

What employers are actually posting

Captured from live job boards (Indeed, LinkedIn, Naukri) in the current scrape window: **10** openings across **12** employers, **2** with disclosed pay, **19** recent. These are real postings.

The live-hiring aggregate for this trade captured 10 active listings from 12 distinct employers, with 19 recent postings and only 2 showing disclosed salary data. These counts are thin by absolute measure but are consistent with how wireman roles are filled in India: the majority of hiring occurs through contractor referrals, ITI campus contacts, and informal labour markets rather than formal online job boards.

Employer (live posting)	Posts	Disclosed pay	What they want
Alpha Control Instruments Pvt. Ltd.	1	n/a	**Job Description** The candidate must hold : Good knowledge & experience in control panel wiring, understanding and interpreting control panel drawin
BluSpring	1	n/a	**Job Description-Multi Skilled Technician** **Location:** Infopark, Kochi **Qualification:** * ITI / Diploma in Electrical * Valid Wireman License **
Brainbox Corporate Solutions LLP	1	n/a	Overhead Line Worker / HV Wireman-Scotland, UK (Visa Sponsorship Available) at Brainbox Corporate Solutions LLP (Phagwara, Punjab, India), linkedin IN
ELIND INDUSTRIES FURNACES P. LTD	1	n/a	Job Profile: Electrician/ Electrical Wireman Experience : 2 to 3 yrs * ITI- Electronics/Electrical * Diploma in Electrical/Industrial Electronics (Opti
Gujarat Infrapipes Pvt. Ltd	1	n/a	We are Urgent requirement for the **Electrician** **Job Descriptions:** **Department -** Maintenance **Designation -** Electrician **Education -**ITI
HARTEK Group	1	n/a	Responsibilities * Read electrical wiring diagrams and schematics. * Perform internal wiring of HT/LT panels. * Install MCCBs, ACBs, VCBs, contactors,
Quess Corp Limited	1	n/a	We are hiring for Airtel Wireman To**responsible for accurate wiring, component installation, and ensuring compliance with technical drawings and safe
Radius from Radius Synergies International Private Limited	1	n/a	Job description: **Walking Interview :-** **Sco No.02 situated at Choti Baradari Bank Squire Patiala (9599074508)** **Master Technician(Senior Smart D
Waarta Connections	1	n/a	Job Description Position: Electronic Panel Manufacturing Technician Department: Production / Battery Production Qualification: * ITI (Electrician / EI
winspire recruiters	1	n/a	Job Summary We are looking for a Wireman / Control Panel Technician responsible for electrical wiring, panel assembly, and installation work. The cand

Employer names and counts are from live job boards in the current window; counts fluctuate daily and are date-stamped in the engine. This sample is smaller than a mature occupation's; the scraper is being scaled to widen coverage.

THE SIGNAL IN THE DATA

- Employer breadth is relatively healthy at 69.9/100, meaning the 12 employers span diverse sectors including panel manufacturing (Alpha Control, winspire recruiters), facility management (BluSpring), telecom infrastructure (Quess Corp / Airtel), heavy industry (ELIND, Gujarat Infrapipes), and power distribution (HARTEK Group) ^P
- Hiring recency scored 100/100, indicating all captured listings are current and active, not stale postings ^P
- International pathways are visible: one listing (Brainbox Corporate Solutions) explicitly offers UK visa sponsorship for HV Wireman roles in Scotland, signalling overseas demand for qualified Indian electrical workers ^P

WHY THIS MATTERS

- Wireman roles appear across manufacturing, construction, utilities, and telecom, reducing dependence on any single sector slowdown ^{P10}
- Government utility recruitment (MAHADISCOM, RDSS projects, RVUNL) provides a public-sector hiring floor that tends to be counter-cyclical to private-sector downturns ¹⁰
- The NTC credential is an explicit hiring filter in the listings reviewed: employers consistently listed ITI Electrician / Wireman as a mandatory qualification, confirming the credential's gatekeeping value ^P

Bottom line: Thin online job-board data understates real demand; wireman hiring is relationship-driven and informal, but the underlying sector growth and government scheme recruitment make this a trade with steady, if unglamorous, work availability.

05 ROLES, PATHWAYS & EARNING POTENTIAL

What the trade leads to, and what it pays

The Wireman NTC is a genuine entry credential, not a terminal qualification. Wiremen who invest in stacking certifications and gaining experience can move from site-level work into supervision, contracting, and specialised roles within five to eight years.

Role this prepares for	Indicative pay in India	Automation resilience
Wireman / Panel Wireman (entry)	Rs 1.8-2.3 LPA (Rs 15,000-20,000/month)	Resilient, physically intensive, low automation exposure
Junior Electrician / Maintenance Technician	Rs 2.0-2.5 LPA (Rs 17,000-21,000/month)	Resilient, broader scope than wireman-only roles
Solar PV Installation Technician (Suryamitra)	Rs 2.4-3.6 LPA	Resilient, high-growth segment, government-backed certification
Smart Meter Technician (RDSS / Discoms)	Rs 2.5-3.5 LPA	Resilient, government scheme-driven, stable public-sector hiring
Master Electrician / Senior Electrician	Rs 3.0-5.0 LPA (Rs 23,000-25,700/month)	Resilient, supervisory, experience premium
Electrical Contractor (self-employed)	Rs 4.0-8.0 LPA (varies widely)	Resilient, independent, scales with portfolio

PHASE 1

Foundations

Complete the 2-year Wireman CTS 2.0 programme covering basic electrical theory, wiring laws, conduit installation, domestic and commercial wiring systems, transformer connections, and earthing, then sit the All India Trade Test (AITT) to earn the NTC from NCVT ^P.

PHASE 2

Credential Stacking

Enrol in the Suryamitra Skill Development Programme for solar panel installation (MNRE-backed), or qualify as a Smart Meter Technician under RDSS-aligned training. Register for an apprenticeship under the National Apprenticeship Promotion Scheme (NAPS) to gain formal employer-side work experience, which directly improves formal placement outcomes ⁸¹⁰.

PHASE 3

Practical Execution

Accumulate 3-5 years of site experience across at least two sectors (residential, industrial, or renewable). Target a wireman licence from the state electrical inspectorate, which is legally required to independently undertake electrical contracting and unlocks higher-paying supervisory and self-employment roles ^P.

06 SKILLS BUILT & WHY THEY'RE AI-RESILIENT

Trained for the floor, not just the test

WHAT CANDIDATES ACTUALLY WORK ON

- Reading and interpreting electrical wiring diagrams, schematics, and single-line diagrams at commercial and industrial scale ^P
- Internal wiring of HT/LT panels including installation of MCCBs, ACBs, VCBs, contactors, relays, timers, and meters ^P
- Cable identification, crimping of lugs and ferrules, continuity testing, insulation resistance measurement, and polarity checks ^P
- Conduit installation, cable tray layout, earthing and bonding, and commissioning of complete commercial wiring systems ^P
- Domestic and commercial wiring including concealed conduit, surface conduit, casing-capping, and loop-in systems as per national electrical codes ^P

WHY THESE RESIST AUTOMATION

- Spatial dexterity in confined, irregular, and live-work environments that robotic platforms cannot safely enter at scale ⁵
- Real-time fault diagnosis using sensory feedback (sight, smell, touch on de-energised conductors) that requires embodied physical presence ^P
- Adaptive problem-solving when as-built conditions deviate from drawings, which is the norm on Indian construction sites ⁵
- Working under live-work safety protocols where human judgment and responsibility cannot be delegated to a machine at current technology cost ⁴
- Client-facing trust and accountability for work that has safety-critical consequences, creating a liability anchor that keeps humans in the loop ^P

The positioning in one line: A wireman's core skill stack combines physical dexterity, safety discipline, and circuit-reading ability in a way that current automation cannot replicate at Indian site economics.

07 THE CREDENTIAL & QUALITY LAYER

The NTC from NCVT: India's most widely recognised vocational credential for electrical work.

The Wireman CTS 2.0 programme is a 2-year (4-semester) course at NSQF Level 4 (with updated curricula classifying it at Level 5 in some state boards). Graduates sit the All India Trade Test (AITT) conducted by the Directorate General of Training and, on passing, receive the National Trade Certificate (NTC) issued by the National Council for Vocational Training (NCVT). The NTC is explicitly required or preferred in the majority of job postings reviewed for this report and is the gatekeeping qualification for statutory wireman licensing in multiple Indian states ^P.

Stackable certifications materially improve outcomes. The Suryamitra programme (MNRE) for solar PV installation and RDSS-aligned smart-meter technician training are government-backed add-ons that widen a wireman's employer pool into India's fastest-growing infrastructure segments. In international markets, the NTC combined with 2-3 years' experience is sufficient for skill-visa pathways to Gulf Cooperation Council countries and, in some cases, the UK, as evidenced by active recruiter listings found in this research ^{P10}.

08 THE INDIA TALENT CONTEXT

Abundant graduates, scarce job-readiness

India's ITI graduate employability rate stood at 45.95% in 2025, up from 41% in the prior year, indicating a genuine but still incomplete link between training and formal employment, especially for trade graduates competing in informal labour markets ³. The India Skills Report 2025 notes that 80% of Indian employers reported difficulty finding skilled professionals, a figure above the global average of 74%, with the talent gap particularly acute in technical and physical trades ¹¹. For wiremen specifically, the mismatch is not a shortage of trained graduates but a shortage of graduates with the combination of NTC credential, wireman licence, and multi-sector site experience that employers actually require.

Certified wiremen with a state wireman licence are in genuine short supply relative to the pace of India's infrastructure rollout, even as raw ITI enrolment remains high ^{P1}.

09 STAYING FUTURE-READY

How a candidate stays on the resilient side

LEAN INTO

- Solar PV array wiring and commissioning: India's 500 GW renewable target by 2030 requires tens of thousands of site wiremen familiar with DC string wiring, combiner boxes, and inverter connections ⁷
- Smart meter installation and AMI network termination under the RDSS, which is mandating meter replacement across all distribution circles in India ¹⁰
- EV charging infrastructure wiring: India's EV rollout requires AC and DC charger installation at petrol stations, commercial premises, and housing complexes ⁹
- Industrial panel wiring for PLI-scheme electronics and semiconductor manufacturing facilities, which have strict quality and traceability requirements for panel wiring ⁹
- Green building and ECBC-compliant wiring for commercial real estate, which increasingly specifies energy-efficient wiring layouts and intelligent building management system integration ⁸

AVOID BEING DEFINED BY

- Relying solely on residential domestic wiring work, which is the most price-competitive, lowest-margin, and most easily disrupted sub-segment of electrical work ^P
- Ignoring digital tools: wiremen who cannot use a smart clamp meter, digital test kit, or read a PDF schematic on a tablet will be undercut by peers who can ⁵
- Working without a formal wireman licence from the state electrical inspectorate, which is legally required for contract work and blocks entry into higher-paying supervisory roles ^P
- Staying in a single employer or sector without building a portfolio of multi-sector experience, which reduces bargaining power and resilience to sector-specific downturns ^P

10 SOURCES & CITATIONS

Every figure, traced to a source

P NSQF / CTS Program Specification (primary).

Trade definition, NSQF level, syllabus, tasks and deliverables for the "Wireman" Craftsmen Training Scheme trade (DGT / MSDE).
dgt.gov.in · accessed Jun 2026

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Reports India's installed power capacity at 523.79 GW as of December 2025 and projects demand for 3.78 million power professionals by 2032 per the National Electricity Plan.
<https://www.ibef.org/industry/power-sector-india> · 2025 · accessed Jun 2026

2 **India Electrical Wires and Cables Market, IMARC Group, 2025**

Values India's electrical wires and cables market at USD 7.0 billion in 2025, projecting growth to USD 11.3 billion by 2034 at a CAGR of 5.31%, driven by urbanisation, renewable integration, and Power for All initiative.
<https://www.imarcgroup.com/india-electrical-wires-and-cables-market> · 2025 · accessed Jun 2026

3 **India Skills Report 2025, Wheebox / CII**

Reports ITI graduate employability rate of 45.95% in 2025, up from 41% previously, and overall graduate employment ratio of 54.81%.
<https://www.vajirainstitute.com/upsc-ias-current-affairs/india-skills-report-2025.aspx> · 2025 · accessed Jun 2026

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Finds 25% of global jobs exposed to GenAI transformation; notes physical trade workers fall below average exposure as GenAI impact declines with tasks of physical nature.
<https://www.ilo.org/publications/generative-ai-and-jobs-refined-global-index-occupational-exposure> · 2025 · accessed Jun 2026

5 **A Future That Works: Automation, Employment, and Productivity, McKinsey Global Institute, 2017**

Estimates physical trades may still account for close to 31% of time spent even at peak automation adoption due to site variability; notes construction and infrastructure lag automation adoption.
<https://www.mckinsey.com/~/media/mckinsey/featured%20insights/digital%20disruption/harnessing%20automation%20for%20a%20future%20that%20works/mgi-a-future-that-works-full-report-updated.pdf> · 2017 · accessed Jun 2026

6 **The Future of Employment: How Susceptible are Jobs to Computerisation? Frey and Osborne, Oxford, 2013**

Landmark study finding 47% of US jobs at risk of automation; electricians and manual trade workers rated significantly lower risk than administrative and routine-production occupations due to dexterity and situational judgment requirements.
https://www.oxfordmartin.ox.ac.uk/downloads/academic/The_Future_of_Employment.pdf · 2013 · accessed Jun 2026

7 **India's Green Transition: Key Workforce Trends in Renewable Energy, PV Magazine India, 2025**

Reports renewable energy sector's share of job creation surged from 8.5% in FY23 to 23.7% in FY24, with 1.7 million new jobs expected in next three years and government training 5.4 million individuals for the sector.
<https://www.pv-magazine-india.com/2025/01/03/indias-green-transition-key-workforce-trends-in-renewable-energy/> · 2025 · accessed Jun 2026

8 **Craftsmen Training Scheme Overview, Skill Reporter**

Summarises CTS network of over 15,000 ITIs, NTC certification process under NCVT, and integration with Skill India Mission including NAPS apprenticeships.

<https://www.skillreporter.com/editorial/craftsmen-training-scheme-cts-india/> · 2025 · accessed Jun 2026

9 **PLI Scheme: Powering India's Industrial Renaissance, PIB / Ministry of Commerce, 2025**

Reports PLI schemes have generated over 12.6 lakh direct and indirect jobs and enabled incremental production of over Rs 18.7 lakh crore, including in electronics and electrical equipment sectors that directly employ wiremen.

<https://www.pib.gov.in/PressNoteDetails.aspx?NotelD=155082&ModuleId=3®=3&lang=2> · 2025 · accessed Jun 2026

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Documents active wireman and lineman recruitment under RDSS, DDUGJY, and IPDS distribution schemes across Rajasthan, Kerala, Maharashtra, and other states by EPC contractors.

<https://constructionplacement.org/vindhya-telelinks-epc-jobs-2025/> · 2025 · accessed Jun 2026

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Reports 80% of Indian employers faced difficulty finding skilled professionals in 2025, above the global average of 74%, with technical and physical trade roles particularly affected.

<https://alp.consulting/how-india-addressing-skills-shortages/> · 2025 · accessed Jun 2026

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<https://in.indeed.com/career/electrician/salaries> · 2026 · accessed Jun 2026

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Lists entry-level wireman salary at Rs 2 LPA, panel wireman at Rs 2.3 LPA, and top earners reaching Rs 5-6 LPA; identifies Hindustan Petroleum, Tata Metaliks, TCS, and Trident Group as key recruiters.

<https://www.collegedekho.com/articles/list-of-jobs-after-iti-wireman-trade/> · 2025 · accessed Jun 2026

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Confirms Wireman is a 2-year, 4-semester CTS programme awarding NTC from NCVT; 240 hours practical and 160 hours theory per semester; graduates certified at NSQF Level 4/5.

<https://syllabus.iti.directory/cts/wireman> · 2024 · accessed Jun 2026

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Projects 170 million new jobs and 92 million displaced globally by 2030; net creation of 78 million roles; roles requiring technical expertise not easily automated among fastest growing; 86% of employers cite AI and information processing as transformational.

<https://www.weforum.org/press/2025/01/future-of-jobs-report-2025-78-million-new-job-opportunities-by-2030-but-urgent-upskilling-needed-to-prepare-workforces/> · 2025 · accessed Jun 2026

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Values India's electrical materials market at USD 19.6 billion in 2024, projected to reach USD 28.3 billion by 2033 at a CAGR of 4.16%.

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<https://www.technavio.com/report/electrical-equipment-market-in-india-industry-analysis> · 2025 · accessed Jun 2026

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Official curriculum document for Wireman CTS 2.0, NSQF Level 4, detailing units of competency, trade practical content, and assessment structure.

https://dgt.gov.in/sites/default/files/Wireman_CTS2.0_NSQF-4.pdf · 2022 · accessed Jun 2026