

Skill India Mission: Bridging the Skill Gap for an Empowered Workforce in the Age of Automation

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Abstract

India stands at the threshold of a demographic dividend, with nearly 75% of its population in the working-age cohort. India faces a significant skill gap that could hinder its economic growth if not addressed. To tackle this challenge, the Skill India Mission was launched in 2015 to train over 400 million individuals in diverse trades. As of December 2024, over 16.03 crore (160 million) candidates have been trained through PMKVY alone. Despite these efforts, only 42–54% of Indian graduates are considered employable, with youth unemployment—especially in the 20–24 age group—hovering near 44–45%. This paper examines the necessity, structure, sub-schemes, and socio-economic impacts of the Skill India initiative, alongside the contemporary obstacles and opportunities in empowering India's youth amid automation and AI disruption.

Keywords: Skill India Mission, PMKVY, youth unemployment, employability, vocational training, digital skills, demographic dividend

I. Introduction

India's youthful demographic, with a median age of approximately 28 years, offers substantial potential for economic advancement—provided the workforce is appropriately skilled. According to the Graduate Skill Index (2025), only 42.6% of graduates are considered employable, highlighting a severe misalignment between academic output and industry demand. Youth unemployment in the 20–24 age group remains persistently high (~44.5%), further compounded by low female labor force participation and a high incidence of underemployment in the informal sector.

II. Why India Needs a Skill Development Programme

- **Employability Crisis:** Approximately half of India's graduates are job-ready. Only around 4.4% of the youth in India receive formal vocational training, whereas approximately 16.6% acquire skills through informal means.

- Demand–Supply Gap: Emerging sectors such as IT, AI, fintech, and green energy demand high-level skills. By 2027–2030, nearly 150 million Indian workers will require reskilling to meet global standards.
- Global Benchmarking: Compared to advanced economies like Germany or South Korea, India's formal skill development lags significantly.
- Perception and Outreach Challenges: Vocational training remains stigmatized, especially in rural and female segments, limiting outreach and participation.

III. Skill India Mission: An Overview (2015–Present)

- Launch & Goal: Initiated in July 2015, aiming to skill 400 million individuals by 2025.
- PMKVY: As of December 2024, over 160 million candidates have been trained under this flagship scheme.

By July 2025, more than 25 lakh (2.5 million) individuals will have been trained under PMKVY 4.0 (FY 2022–25).

- Apprenticeships & International Linkages: Through schemes like NAPS and TITP, India promotes job-oriented training with placements abroad, notably in Japan.
- Digital Skilling: Platforms like Skill India Digital Hub and FutureSkills Prime offer courses in AI, cybersecurity, and robotics.

IV. Sub-Schemes Under Skill India

- National Skill Development Mission (NSDM): Ensures cross-sectoral coordination, quality benchmarks, and centralized governance.
- Pradhan Mantri Kaushal Vikas Yojana (PMKVY): Key driver of ² short-term training (STT) and Recognition of Prior Learning (RPL); Telangana alone trained 4.2 lakh individuals by mid-2024.
- Indian Skill Development Services (ISDS): A Group 'A' cadre under UPSC for institutionalizing policy, planning, and execution.
- National Policy for Skill Development and Entrepreneurship (2015): Provides strategic direction to scale, standardize, and improve vocational education.
- Skill Loan Scheme: Offers ₹5,000–₹1.5 lakh for certified courses, improving access for economically disadvantaged youth.
- PM YUVA Yojana: Encourages youth entrepreneurship through MOOCs, incubation support, and formal certification.

V. Impact of Skill India Initiative

- Macroeconomic Indicators: According to the Economic Survey (2024–25), unemployment dropped to 3.2% and LFPR increased to 60.1%.
- Data Controversies: Independent economists dispute these figures, suggesting actual unemployment may lie between 10–12%, citing definitional flaws.
- Gender Inclusion: Women comprise approximately 58% of PMKVY trainees. ITIs reserve up to 30% of seats for female participants.
- Skill Impact Bond: Introduced in 2021, the Skill Impact Bond, an outcome-linked skilling initiative, trained over 23,700 candidates, with 72% being women, and achieved a 75% placement rate along with 60% retention.
- Corporate Partnerships: Corporations such as Reliance and Mahindra contribute to ITI modernization (₹60,000 crore investment), enhancing industry alignment.

VI. Challenges to Skilling India

- Mismatch with Market Needs: Rapid evolution in technologies like AI and cloud computing outpaces curriculum revisions. Only ~15% of companies have structured skill frameworks.
- Quality and Placement Linkages: While training volume is high, sustained employment remains a challenge. Earlier PMKVY versions had limited tracking mechanisms.
- Access and Outreach in Rural Areas: Limited infrastructure and social undervaluation hinder participation.
- Inadequate infrastructure: Access and outreach in rural areas are constrained due to inadequate infrastructure and the social undervaluation of vocational training, which discourages participation.
- Data Credibility Issues: Public skepticism about government statistics weakens program credibility and effectiveness.

VII. Opportunities Ahead

- Green Jobs: Renewable energy could generate 10 million jobs by 2030, demanding targeted upskilling strategies.
- AI and Digital Upskilling: FutureSkills Prime has already trained over 1.27 lakh professionals in emerging technologies.
- Scalable PPP Models: The Young India Skills University (Hyderabad, 2024) offers replicable PPP models focusing on logistics, healthcare, and BFSI sectors.
- Entrepreneurship: Initiatives like PM YUVA and MAST support localized, tech-enabled entrepreneurial ventures as employment alternatives.

VIII. Conclusion

India's demographic dividend is a narrowing window of opportunity. To fully capitalize on this, a paradigm shift is necessary—towards scalable, inclusive, and outcome-based skilling frameworks. Strengthening public–private partnerships, regional skilling hubs, outcome-linked financing, and boosting entrepreneurship are pivotal. Bridging the gap between formal education and market realities, enhancing data credibility, and removing the stigma around vocational careers will be essential in making India the true “Skill Capital of the World.”

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