¹ Skill India Mission: Bridging the Skill

2 Gap for an Empowered Workforce in

the Age of Automation

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- 5 India stands at the threshold of a demographic dividend, with nearly 75% of its
- 6 population in the working-age cohort. India faces a significant skill gap that could hinder
- 7 its economic growth if not addressed. To tackle this challenge, the Skill India Mission
- 8 was launched in 2015 to train over 400 million individuals in diverse trades. As of
- 9 December 2024, over 16.03 crore (160 million) candidates have been trained through
- 10 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.
- 15 Keywords: Skill India Mission, PMKVY, youth unemployment, employability, vocational
- 16 training, digital skills, demographic dividend

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I. Introduction

- 20 India's youthful demographic, with a median age of approximately 28 years, offers
- 21 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
- 25 (~44.5%), further compounded by low female labor force participation and a high
- 26 incidence of underemployment in the informal sector.

27 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
- 30 approximately 16.6% acquire skills through informal means.

- 31 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
- 33 reskilling to meet global standards.
- Global Benchmarking: Compared to advanced economies like Germany or South
- 35 Korea, India's formal skill development lags significantly.
- 36 Perception and Outreach Challenges: Vocational training remains stigmatized,
- 37 especially in rural and female segments, limiting outreach and participation.

38 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
- 41 this flagship scheme.
- By July 2025, more than 25 lakh (2.5 million) individuals will have been trained under
- 43 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
- 47 courses in AI, cybersecurity, and robotics.

48 IV. Sub-Schemes Under Skill India

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

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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
- 67 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
- 71 initiative, trained over 23,700 candidates, with 72% being women, and achieved a 75%
- 72 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.

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VI. Challenges to Skilling India

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

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VII. Opportunities Ahead

92 - Green Jobs: Renewable energy could generate 10 million jobs by 2030, demanding targeted upskilling strategies. 93 94 - AI and Digital Upskilling: FutureSkills Prime has already trained over 1.27 lakh 95 professionals in emerging technologies. 96 - Scalable PPP Models: The Young India Skills University (Hyderabad, 2024) offers 97 replicable PPP models focusing on logistics, healthcare, and BFSI sectors. 98 - Entrepreneurship: Initiatives like PM YUVA and MAST support localized, tech-99 enabled entrepreneurial ventures as employment alternatives. 100 101 VIII. Conclusion India's demographic dividend is a narrowing window of opportunity. To fully capitalize 102 on this, a paradigm shift is necessary—towards scalable, inclusive, and outcome-based 103 104 skilling frameworks. Strengthening public-private partnerships, regional skilling hubs, outcome-linked financing, and boosting entrepreneurship are pivotal. Bridging the gap 105 106 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 107 Capital of the World." 108 109 References 110 Ministry of Skill Development and Entrepreneurship (2024). PMKVY Dashboard. 111 112 NSDC (2025). Graduate Skill Index Report. Economic Survey 2024–25, Government of India. 113 114 FutureSkills Prime Portal (2025). NITI Aayog (2023). Skilling India: Frameworks and Challenges. 115 Skill India Digital Hub (2024). 116

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