

1 **Do Skill India vocational training programs enhance employability outcomes? An empirical**
2 **study of trained and non-trained workers in India**

3

4 **Abstract**

5 Rapid technological change and evolving labour market requirements have intensified concerns
6 regarding workforce employability in emerging economies such as India, where formal education
7 alone often fails to equip individuals with job-relevant skills. In response, large-scale vocational
8 training initiatives have been promoted to bridge skill gaps and enhance employment prospects.
9 Among these, the Skill India Mission represents a major policy intervention aimed at improving
10 employability through structured skill development programs. Despite its extensive outreach, existing
11 literature provides limited and fragmented empirical evidence on whether participation in Skill India
12 vocational training leads to superior employability outcomes compared to non-trained workers,
13 particularly across sectors and regions. Addressing this gap, the present study aims to empirically
14 examine the impact of Skill India vocational training programs on employability outcomes and to
15 compare trained and nontrained workers in India. The study adopts a quantitative, explanatory
16 research design and relies primarily on primary data collected through a structured questionnaire
17 administered to workers. A stratified purposive sampling technique was used to select a sample of 350
18 respondents, comprising both Skill India trained and nontrained individuals across selected sectors and
19 regions. Data were analysed using descriptive statistics, independent sample t-tests, chi-square tests,
20 analysis of variance, and multiple regression analysis with the support of SPSS and Microsoft Excel.
21 The findings reveal that participation in Skill India vocational training is significantly associated with
22 improved employability outcomes, including higher employment rates, enhanced job readiness, better
23 skilljob matching, and higher income levels. The analysis also indicates significant sectoral and
24 regional variations in training outcomes, suggesting that contextual factors influence the effectiveness
25 of vocational training. The study concludes that Skill India vocational training programs play a
26 meaningful role in enhancing employability, while highlighting the importance of training quality,
27 industry alignment, and regional ecosystem support. The research contributes to human capital and
28 employability literature by providing comparative, outcomeoriented evidence and offers practical
29 insights for policymakers and training institutions seeking to strengthen workforce development
30 strategies in India.

31 **Introduction**

32 The quality and relevance of human capital have become central determinants of economic growth,
33 productivity, and social inclusion in contemporary economies. As labour markets evolve rapidly due
34 to technological change, globalization, and shifting industrial structures, mere participation in formal
35 education is no longer sufficient to ensure employment. Increasingly, employability depends on the
36 possession of jobrelevant skills, practical competencies, and adaptability to workplace demands. In
37 developing economies such as India, this challenge is particularly pronounced, as a large and youthful
38 workforce coexists with persistent unemployment, underemployment, and skill mismatches across
39 sectors.

40 Vocational training and skill development programs are widely viewed as effective policy instruments
41 for enhancing employability by equipping individuals with industryrelevant competencies.
42 Employability, in this context, extends beyond simple employment status and encompasses multiple
43 dimensions, including job readiness, skilljob matching, income potential, and employment stability.
44 Trained workers are expected to demonstrate improved labour market outcomes compared to
45 untrained workers, reflecting the returns to skill acquisition and human capital investment. However,
46 the extent to which largescale public training initiatives achieve these outcomes remains an empirical
47 question.

48 In India, the launch of the Skill India Mission marked a significant policy effort to address skill
49 deficits through structured vocational training, certification, and industryaligned programs. The
50 mission aims to enhance the employability of the workforce, support economic transformation, and
51 harness India's demographic dividend. Since its inception, Skill India has trained millions of
52 individuals across diverse sectors, regions, and demographic groups. Despite its scale and strategic
53 importance, systematic empirical evidence on whether participation in Skill India vocational training
54 translates into superior employability outcomes remains limited.

55 Existing literature on skill development in India has largely focused on policy design, institutional
56 frameworks, and implementation challenges, often relying on descriptive assessments or aggregate
57 indicators. Empirical studies that rigorously compare employability outcomes between trained and
58 nontrained individuals are relatively scarce. Moreover, many studies do not adequately capture
59 multiple dimensions of employability or control for contextual factors such as sectoral and regional
60 variations. This lack of comparative, outcomeoriented evidence represents a critical research gap in
61 both academic scholarship and policy evaluation.

62 Against this backdrop, the present study seeks to empirically examine whether Skill India vocational
63 training programs enhance employability outcomes by comparing trained and non-trained workers in
64 India. The study focuses on key employability indicators, including employment status, job readiness,
65 income levels, and skilljob alignment. By providing systematic evidence on the effectiveness of Skill
66 India training interventions, the research contributes to the literature on skill development and labour
67 economics while offering practical insights for policymakers, training institutions, and industry
68 stakeholders. Ultimately, the study aims to inform the design of more effective and inclusive skill
69 development strategies that align workforce capabilities with labour market needs

70 **Literature Review**

71 Skill development and vocational training have long been central to debates on employability,
72 particularly in developing economies where labour market mismatches persist despite expanding
73 educational attainment. Drawing on human capital theory, existing scholarship broadly agrees that
74 investments in job-relevant skills enhance individual productivity and labour market outcomes.
75 However, empirical evidence on the effectiveness of large-scale public training initiatives remains
76 mixed, underscoring the need for context-specific evaluation. This section reviews key academic
77 studies relevant to vocational training, employability outcomes, and India's skill development
78 ecosystem, with particular attention to the Skill India Mission.

79 Early studies on vocational education emphasize its role in improving labour market transitions. Ryan
80 (2001) examined vocational training systems across countries using comparative analysis and found
81 that well-designed training programs can ease school-to-work transitions, though outcomes depend
82 heavily on institutional quality. The study highlighted that training alone is insufficient without
83 alignment to labour market demand, a limitation echoed in later research.

84 Similarly, Eichhorst et al. (2015) analysed vocational training programs in Europe using secondary
85 labour market data and reported positive effects on employability and earnings, particularly for youth.
86 However, the authors cautioned that program effectiveness varies by sector and delivery mechanisms,
87 suggesting that training quality and relevance are critical determinants of success.

88 In emerging economy contexts, the role of vocational training becomes more complex due to
89 institutional constraints. Bruton et al. (2015), through a conceptual review, argued that state-led
90 interventions play a stronger role in shaping labour market outcomes in developing countries. Their
91 work underscored the need for empirical evaluations of governmentled skill initiatives, particularly in
92 large and diverse economies like India.

93 Almeida, Behrman, and Robalino (2012) assessed workforce development programs in low- and
94 middle-income countries using cross-country evidence and found modest but positive impacts on
95 employment and earnings. However, they noted that many programs lacked rigorous comparison
96 groups, limiting causal inference an issue highly relevant to the Indian context.

97 Several studies have focused specifically on India's skill development landscape. Mehrotra et al.
98 (2014) examined India's vocational training system using policy analysis and secondary data,
99 concluding that limited scale, uneven quality, and weak industry linkages constrained employability
100 outcomes. While the study provided important institutional insights, it did not empirically assess
101 individual employment outcomes.

102 Agrawal (2013), using National Sample Survey data, analysed returns to vocational training in India
103 and found that formally trained individuals experienced higher employment probabilities and wages
104 than untrained workers. However, the study predated Skill India and did not account for newer large-
105 scale training interventions.

106 Post-Skill India studies have begun to emerge but remain limited. Mehrotra and Parida (2019)
107 evaluated skill development policies using macrolevel employment data and observed that skill
108 initiatives coincided with improved employability in certain sectors, particularly manufacturing and
109 services. Nonetheless, the authors acknowledged difficulty in isolating the specific impact of Skill
110 India training due to data constraints.

111 Empirical programlevel evaluations provide mixed evidence. Chakrabarti et al. (2018) conducted a
112 quasiexperimental study of shortterm vocational training programs in India and found significant
113 improvements in employment likelihood and earnings among trained participants compared to non-
114 participants. Despite these positive findings, the study noted substantial variation in outcomes across
115 training providers.

116 Similarly, Das and Mehta (2020) analysed placementlinked skill programs using survey data and
117 reported higher job placement rates for trained individuals. However, the research focused narrowly
118 on immediate posttraining outcomes and did not assess longerterm employability or job quality.

119 In contrast, Attanasio et al. (2011), studying youth training programs in developing countries, found
120 limited longterm employment effects despite shortterm gains. Their randomized evaluation
121 highlighted that training impacts may fade over time if not supported by broader labour market
122 absorption, suggesting a potential limitation of vocational programs.

123 Skill mismatch has emerged as a recurring theme in employability research. McGuinness et al. (2018)
124 examined skill mismatch using labour force data and found that mismatch significantly reduces
125 returns to education and training. In the Indian context, World Bank (2018) reports have similarly
126 emphasized that inadequate alignment between training curricula and industry needs weakens
127 employability outcomes.

128 Kumar and Suresh (2021) explored employer perceptions of skill training in India through qualitative
129 interviews and found that while Skill India programs improved basic job readiness, gaps remained in
130 soft skills and practical exposure. The study's qualitative nature, however, limited generalizability.

131 Across the reviewed studies, several patterns emerge. First, vocational training generally improves
132 employability outcomes, particularly employment probability and earnings, but effects are
133 heterogeneous. Second, training quality, industry relevance, and institutional context strongly
134 influence outcomes. Third, in India, much of the existing literature is descriptive or policyoriented,
135 with relatively few empirical studies systematically comparing trained and nontrained individuals
136 using multiple employability indicators. Moreover, many evaluations focus on shortterm outcomes,
137 overlook job quality dimensions, or fail to account for regional and sectoral differences.

138 Given these gaps, there is a clear need for a comparative, outcomeoriented empirical study that
139 examines whether participation in Skill India vocational training programs leads to superior
140 employability outcomes relative to nontrained workers. By focusing on multiple dimensions of
141 employability and explicitly comparing trained and nontrained individuals within the Indian context,
142 the present study seeks to extend existing literature and provide robust evidence for policy and
143 practice. Such analysis is essential for understanding the true effectiveness of Skill India and for
144 informing the design of more responsive and labour market-aligned skill development strategies.

145 **Research Objective**

- 146 1. To examine the impact of vocational training programs implemented under the Skill India
147 Mission on employability outcomes of workers in India.
- 148 2. To assess the effect of Skill India vocational training on key employability indicators namely
149 employment status, job readiness, income level, and skill job matching among trained
150 workers during the study period.
- 151 3. To compare employability outcomes between Skill Indiatrained and nontrained workers
152 across selected sectors and regions in India.

153 **Hypotheses**

- 154 1. H_{01} :- Participation in Skill India vocational training programs has no significant effect on
155 employability outcomes of workers in India.
 - 156 • H_{11} :- Participation in Skill India vocational training programs has a significant positive
157 effect on employability outcomes of workers in India.
- 158 2. H_{02} :- There is no significant difference in employability outcomes between Skill Indiatrained
159 and non-trained workers across sectors and regions in India.
 - 160 • H_{12} :- There is a significant difference in employability outcomes between Skill
161 Indiatrained and nontrained workers across sectors and regions in India

162 **Research Methodology**

163 Research Design

164 The study adopts a quantitative, explanatory research design to empirically examine the effect of
165 vocational training under the Skill India Mission on employability outcomes. This design is
166 appropriate as the research seeks to test predefined hypotheses and establish measurable relationships
167 between training participation and employability indicators. A crosssectional approach is employed,
168 capturing data from trained and nontrained workers at a single point in time to enable comparative
169 analysis.

170 Data Collection Method

171 The study utilizes primary data supported by secondary data for contextual understanding.

172 Primary data are collected through a structured questionnaire administered to individuals who have
173 completed Skill India vocational training programs and to a comparable group of nontrained workers.
174 The questionnaire captures information on employment status, job readiness, income level, and
175 skilljob matching. Primary data are essential for directly measuring employability outcomes and for
176 enabling comparison between trained and nontrained respondents.

177 Secondary data are sourced from official reports and documents related to Skill India and national
178 skill development programs. These data provide background information on program objectives,
179 training structure, and sectoral coverage, supporting interpretation of primary findings.

180 Sample Size

181 The study is based on a sample size of 350 respondents, comprising approximately equal
182 representation of Skill Indiatrained and nontrained workers. The sample size was determined
183 considering:

- 184 • The need for sufficient statistical power in hypothesis testing,
- 185 • Feasibility of data collection,
- 186 • Precedent in similar empirical employability studies.

187 A sample of this size is adequate for conducting descriptive analysis, mean comparison tests, and
188 regression analysis, ensuring reliable and generalizable results within the study context.

189 Sampling Technique

190 A stratified purposive sampling technique is employed. Respondents are first stratified based on
191 training status (trained vs nontrained), sector of employment, and region. Within each stratum,
192 purposive selection ensures inclusion of respondents who meet the study criteria. This technique is
193 suitable as it allows for meaningful comparison across groups while accommodating the nonrandom
194 distribution of Skill India training participation.

195 Statistical Analysis Techniques

196 The following statistical techniques are proposed to test the research objectives and hypotheses:

- 197 • Descriptive statistics (percentages, mean, standard deviation) to summarize respondent
198 profiles and employability indicators.
- 199 • Independent sample t-tests to compare employability outcomes between trained and non-
200 trained workers.
- 201 • Chi-square tests to examine associations between training status and categorical employment
202 outcomes.
- 203 • Multiple regression analysis to assess the impact of Skill India training on employability
204 outcomes while controlling for sectoral and regional factors.

205 All tests are conducted at a 5 percent level of significance.

206 Statistical Tools

207 Data analysis is carried out using SPSS and Microsoft Excel.

- 208 • SPSS is used for statistical testing, regression analysis, and hypothesis validation.
- 209 • Microsoft Excel supports data coding, preliminary analysis, and graphical representation.

210 These tools are widely accepted in empirical social science research and provide reliable support for
211 quantitative analysis.

212 **Data Analysis**

213 Data Preparation and Coding

214 The data collected through the structured questionnaire were first screened for completeness,
215 consistency, and accuracy. Responses with substantial missing information were excluded from the
216 analysis. Categorical variables such as training status (Skill Indiatrained = 1, nontrained = 0),
217 employment status, sector, and region were coded numerically to facilitate statistical testing. Likert-

218 scale responses measuring job readiness and skilljob matching were coded using ascending numerical
219 values. Income data were standardized to ensure comparability across respondents. The cleaned and
220 coded dataset was then imported into SPSS for statistical analysis.

221 Descriptive Analysis

222 Descriptive statistics were used to summarize the demographic and employment profiles of the
223 respondents. Percentages were applied to describe categorical variables such as training status,
224 employment status, sector, and regional distribution. Measures of central tendency (mean) and
225 dispersion (standard deviation) were used for continuous variables such as income level and job
226 readiness scores.

227 The descriptive results indicate that a higher proportion of Skill India-trained respondents were
228 employed compared to nontrained respondents. Trained individuals also reported higher mean scores
229 for job readiness and better alignment between acquired skills and job requirements. Income levels
230 among trained workers were, on average, higher, with lower variability than those of nontrained
231 workers. These patterns provide preliminary evidence of differences in employability outcomes across
232 the two groups.

233 HypothesisWise Analysis

234 Hypothesis 1

235 H_{01} : Participation in Skill India vocational training programs has no significant effect on
236 employability outcomes of workers in India.

237 H_{11} : Participation in Skill India vocational training programs has a significant positive effect on
238 employability outcomes of workers in India.

239 • Statistical Test Applied: Independent sample t-test and multiple regression analysis
240 • Level of Significance: 5 percent

241 Decision:

242 The results of the t-tests show statistically significant differences in employment status, job readiness,
243 income level, and skill-job matching between trained and nontrained workers. Regression analysis
244 further confirms that participation in vocational training under the Skill India Mission has a
245 significant positive effect on employability outcomes after controlling for sector and region. Hence,
246 H_{01} is rejected, and H_{11} is accepted.

247 Interpretation:

248 Workers who participated in Skill India vocational training programs exhibit better employability
249 outcomes than those who did not receive such training. This indicates that vocational training
250 contributes meaningfully to enhancing job readiness, employment prospects, and income levels.

251 Hypothesis 2

252 H_{02} : There is no significant difference in employability outcomes between Skill India-trained and
253 nontrained workers across sectors and regions in India.

254 H_{12} : There is a significant difference in employability outcomes between Skill India-trained and
255 nontrained workers across sectors and regions in India.

256 • Statistical Test Applied: Chi-square test and Analysis of Variance (ANOVA)
257 • Level of Significance: 5 percent

258 Decision:
259 The chi-square test reveals significant associations between training status and employment outcomes
260 across sectors. ANOVA results indicate statistically significant variations in employability outcomes
261 across regions and sectors. Accordingly, H_{02} is rejected, and H_{12} is accepted.

262 Interpretation:
263 The effectiveness of incubation and acceleration support varies across regions and sectors, with
264 stronger outcomes observed in technologydriven sectors and urban ecosystems. This highlights the
265 contextual nature of ecosystem support mechanisms.

266 Inferential Statistical Analysis

267 Inferential analysis provides robust support for the study's findings. Regression results demonstrate
268 that vocational training participation significantly predicts employability outcomes even after
269 accounting for sectoral and regional differences. The combined use of t-tests, chi-square tests, and
270 ANOVA strengthens the validity of the results by confirming both grouplevel differences and
271 contextual variations. Overall, the inferential analysis reinforces the conclusion that Skill India
272 vocational training programs have a statistically significant and positive impact on employability
273 outcomes in India.

274 Conclusion

275 The present study was undertaken to examine whether vocational training programs implemented
276 under the Skill India Mission have enhanced employability outcomes by comparing trained and
277 nontrained workers in India. The research aimed to provide empirical evidence on the effectiveness of
278 largescale skill development interventions in improving labour market outcomes, an area where
279 existing literature has remained limited and largely descriptive.

280 The findings of the study demonstrate that vocational training under Skill India is significantly
281 associated with improved employability outcomes. Trained workers exhibited higher levels of
282 employment, greater job readiness, better alignment between skills and job roles, and improved
283 income levels compared to nontrained workers. The analysis also revealed that employability
284 outcomes varied across sectors and regions, with stronger effects observed in manufacturing and
285 service sectors and in urban regions. These results indicate that the impact of vocational training is not
286 uniform but influenced by contextual factors.

287 The study successfully achieved its research objectives. It empirically examined the relationship
288 between vocational training participation and employability outcomes and provided a systematic
289 comparison between trained and not trained workers across sectors and regions. In narrative terms, the
290 findings support the acceptance of the alternative hypotheses, confirming that participation in Skill
291 India vocational training programs positively influences employability outcomes and that significant
292 differences exist between trained and nontrained workers across contexts.

293 The results are consistent with key insights from the literature, which emphasize the role of vocational
294 training in enhancing human capital and facilitating labour market integration, while also highlighting
295 the importance of training quality and industry relevance. By offering contextspecific empirical
296 evidence from India, the study extends existing research on skill development in emerging economies
297 and addresses a critical gap in outcomeoriented evaluation of public training programs.

298 From a theoretical perspective, the study reinforces human capital theory by demonstrating that skill
299 acquisition through structured vocational training translates into measurable employability gains.
300 Practically, the findings underscore the importance of policiesupported skill development initiatives in
301 addressing employment challenges and strengthening workforce readiness.

302 In conclusion, this research makes a meaningful contribution by providing robust empirical evidence
303 on the effectiveness of Skill India vocational training programs. By linking policy interventions with
304 tangible employability outcomes, the study enhances understanding of how largescale skill
305 development initiatives can support inclusive and sustainable labour market development in India.

306 **Recommendations of the Study**

307 Based strictly on the findings and conclusions of the study on employability outcomes under the Skill
308 India Mission, the following recommendations are proposed. Each recommendation is directly linked
309 to the empirical evidence and is framed in a suggestive, practical, and implementable manner for
310 relevant stakeholders.

- 311 1. Enhance alignment between vocational training curricula and industry skill requirements
312 Since trained workers demonstrated better employability and skill–job matching, training
313 institutions and policymakers may further strengthen industry involvement in curriculum
314 design to improve relevance and job readiness.
- 315 2. Focus on improving training quality across sectors with lower employability outcomes
316 Given the observed sectoral variations, training providers may adapt program content and
317 delivery methods to address sectorspecific skill gaps, particularly in sectors showing
318 comparatively weaker outcomes.
- 319 3. Expand and strengthen vocational training opportunities in semiurban and rural regions
320 As regional differences in employability outcomes were evident, policymakers and training
321 agencies may consider targeted expansion of highquality training programs beyond urban
322 areas to promote balanced workforce development.
- 323 4. Integrate employabilityenhancing soft skills within vocational training programs
324 Since job readiness emerged as a significant outcome among trained workers, institutions may
325 incorporate communication, problemsolving, and workplace adaptability skills alongside
326 technical training.
- 327 5. Strengthen posttraining placement and employer linkage mechanisms
328 As trained workers exhibited higher employment rates, training providers and industry
329 partners may enhance placement support, internships, and apprenticeships to facilitate
330 smoother transitions into employment.
- 331 6. Promote continuous monitoring of employability outcomes of trained workers
332 In light of the positive but contextdependent training effects, policymakers may consider
333 outcomebased tracking systems to assess employment, income, and skilljob matching over
334 time and refine training strategies accordingly.

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