

## **Incorporation of Green Skills with Soft Skill Training: Creating Awareness about Green Skills in Underprivileged Communities through Soft Skill Training Centres**

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### **Abstract**

Environmental challenges are escalating at an unprecedented rate, making the awareness and adoption of green skills essential for a sustainable future. Green skills encompass the knowledge, abilities, and practices that enable individuals and communities to engage in sustainable and environmentally responsible behaviours. These skills are crucial for mitigating climate change, conserving resources, reducing carbon footprints, and promoting renewable energy. However, in underprivileged communities, awareness and access to such skill sets remain significantly limited. This study explores the integration of green skills with soft skill training centres, particularly in underprivileged communities, to enhance environmental consciousness while improving employability. By embedding green competencies - such as waste management, renewable energy utilization, sustainable agriculture, and eco-conscious workplace ethics - into soft skill programmes, individuals can develop a dual skill set that supports both professional growth and environmental stewardship. The fusion of interpersonal, cognitive, and problem-solving skills with sustainability education has the potential to revolutionize workforce training by preparing individuals for green economy jobs while simultaneously fostering a culture of ecological responsibility. This paper highlights the role of soft skill training centres in promoting green skills awareness, empowering marginalized communities to adopt sustainable practices, and equipping individuals with job-ready competencies aligned with the emerging green economy. Furthermore, it examines global best practices, challenges in implementation, and potential policy recommendations to facilitate the widespread adoption of this approach. Through public-private partnerships, digital learning tools, and policy-driven incentives, the integration of green skills into workforce training can create a ripple effect, transforming industries and livelihoods alike.

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## **Introduction**

Soft skill training is a well-established component of non-formal education, aimed at enhancing personal and professional competencies, especially among underprivileged youth. Soft skill training centres typically focus on communication, teamwork, financial management, and leadership, equipping learners with the necessary tools to navigate the workforce. However, as environmental concerns become increasingly pressing, there is an urgent need to integrate green skills into these programmes. Green skills refer to the knowledge and abilities required to address environmental challenges and participate in sustainable industries (International Labour Organization [ILO], 2021). These skills are crucial for fostering eco-friendly behaviours, reducing carbon footprints, and promoting green technologies. The United Nations Sustainable Development Goals (SDGs) emphasize the need for environmental education and workforce upskilling to achieve sustainability (United Nations Educational, Scientific and Cultural Organization [UNESCO], 2020). By incorporating green skills into soft skill training centres, we can simultaneously increase employability and environmental responsibility in underprivileged communities. The growing demand for environmentally sustainable practices across industries has made green skills an essential part of modern workforce training. Various sectors, including renewable energy, construction, waste management, and agribusiness, are seeking individuals proficient in sustainability practices (International Renewable Energy Agency [IRENA], 2022; World Bank, 2023). Despite this, many underprivileged communities remain unaware of the economic and environmental benefits of green skills. Bridging this gap requires a structured approach to integrating green skills into existing educational frameworks.

Additionally, traditional educational structures often fail to emphasize sustainability education, leaving a significant knowledge deficit in marginalized populations. The incorporation of green skills alongside soft skill training offers a dual advantage—enhancing employment opportunities while simultaneously promoting ecological responsibility. With the rise of climate-conscious policies and global sustainability initiatives, it is imperative to equip youth with the skills necessary to thrive in a green economy (United Nations Environment Programme [UNEP], 2021; World Economic Forum [WEF], 2023). This paper explores the significance of green skills, the role of soft skill training centres, and the impact of their integration on underprivileged communities. By leveraging existing training frameworks and expanding their scope

to include environmental awareness, we can empower individuals to take charge of their future while contributing positively to the planet.

### **The Importance of Green Skills for Environmental Sustainability**

Green skills are crucial in promoting sustainable development by fostering behaviours that mitigate environmental impact. These skills cover areas such as:

- Renewable energy technologies (solar, wind, and bioenergy utilization)
- Sustainable waste management (recycling, composting and circular economy principles)
- Conservation practices (water conservation, afforestation and sustainable agriculture)
- Energy efficiency (reducing energy waste in homes and workplaces)
- Sustainable construction and urban planning (eco-friendly materials and green architecture)

Beyond environmental benefits, Green skills contribute significantly to economic development. The International Labour Organization (ILO) reports that a shift towards green economies will generate millions of new jobs globally, particularly in energy efficiency, water management, and sustainable agriculture. Countries that invest in eco-skilling will benefit from increased economic resilience and reduced dependency on non-renewable resources. Green skills also play a role in corporate social responsibility (CSR) initiatives. Many companies worldwide are embedding sustainability within their operational frameworks, necessitating employees who are well versed in green practices. The combination of environmental awareness and workforce adaptability ensures that industries can meet both regulatory and social expectations.

Therefore, mainstreaming green skills in workforce training is not only an environmental necessity but also an economic strategy for long-term sustainability.

### **The Role of Soft Skill Training Centres in Underprivileged Communities**

Soft skill training centres play a **transformative role** in marginalized communities by equipping youth with **essential life skills** that improve their employability. Key contributions include:

- Enhancing communication & leadership skills
- Providing career guidance & entrepreneurship training

- Promoting financial literacy & women's empowerment
- Encouraging social inclusion & community engagement

However, the integration of green skills remains largely underexplored in these centres. Introducing green skills alongside traditional soft skill training can amplify career opportunities and create environmentally conscious professionals. Many underprivileged communities face barriers to employment due to lack of industry-relevant skills and limited awareness of green job sectors. Soft skill training centres can act as a bridge, linking individuals to sustainable employment opportunities in industries such as renewable energy, eco-friendly construction and sustainable waste management. Moreover, these centres can serve as knowledge hubs, where learners receive practical training in eco-conscious practices. By integrating field-based experiential learning, such as community recycling projects, water conservation programmes and green entrepreneurship initiatives, participants can apply their knowledge directly to their surroundings.

### **Training Green Skills Alongside Soft Skills**

The inclusion of green skills within soft skill training programmes provides multifaceted benefits that enhance employability, foster environmental awareness and drive economic growth. Soft skills such as communication, teamwork, leadership, adaptability, and problem-solving play a crucial role in ensuring that green skill training is effective, scalable, and impactful.

#### **1. Job Readiness for the Green Economy**

- Training youth in solar energy installation, waste management, eco-friendly construction and sustainable agriculture equips them with skills that align with growing job opportunities in the green sector.
  - Courses focusing on climate change adaptation, environmental conservation and energy efficiency ensure that learners are well versed in industry demands.
  - Employability workshops can introduce resume building, interview skills and workplace etiquette, ensuring a smooth transition into green careers.

#### **2. Community Impact and Behavioural Change**

- Soft skill training centres can serve as hubs for eco-awareness campaigns, hands-on sustainability projects and interactive workshops.
  - By integrating real-world problem-solving activities, trainees can apply green skills directly within their communities, schools and workplaces.
  - Encouraging peer learning and mentorship fosters a culture of shared responsibility and knowledge dissemination.

**3. Bridging the Knowledge Gap through Industry Collaboration**

- Collaborating with renewable energy firms, sustainability organizations and environmental agencies ensures that training is aligned with industry needs.
- Hands-on internships and apprenticeships in eco-friendly sectors provide learners with real-world experience and networking opportunities.
- Hosting guest lectures by sustainability experts exposes trainees to global trends and innovations in environmental conservation.

**4. Integration of Digital Learning and Emerging Technologies**

- Leveraging virtual reality (VR) simulations, AI-driven sustainability models and e-learning platforms can make green skills training more interactive and accessible.
- Digital platforms can help trainees connect with sustainability mentors, access global resources and earn online certifications in green technologies.

**5. Entrepreneurial Mindset Development**

- Encouraging learners to explore green start-ups and self-employment opportunities in the eco-conscious economy fosters financial independence.
- Business development training can include eco-friendly product design, sustainable business planning and green supply chain management.
- Providing access to micro-financing, incubation centres and social enterprise networks can help young entrepreneurs scale their initiatives.

**6. Soft Skills as a Catalyst for Green Innovation**

- Leadership training empowers individuals to spearhead environmental movements within their communities and workplaces.
- Critical thinking and creativity enable trainees to design innovative solutions for pressing sustainability challenges.
- Negotiation and advocacy skills help individuals influence policy changes and corporate sustainability strategies.

Soft skill training centres can integrate structured green curricula, offering modules on climate resilience, energy-efficient technology and resource optimization. This holistic approach ensures that individuals receive a well-rounded education that meets both industry demands and environmental needs. By fostering a culture of sustainability, soft skills combined with green competencies create a future-ready workforce capable of tackling global environmental challenges.

**The Impact of Green Skills on Socio-economic Development**

Integrating green skills into workforce development programmes has a profound impact on socio-economic growth. These skills contribute to:

- **Poverty Alleviation:** Green industries provide sustainable employment opportunities, especially for youth from economically disadvantaged backgrounds.

- **Economic Growth:** The green economy fosters innovation, entrepreneurship and job creation across multiple sectors, such as renewable energy and sustainable agriculture.
- **Social Equity:** By equipping marginalized communities with eco-conscious skills, we ensure inclusive development and equal opportunities in emerging job markets.
- **Long-Term Employability:** As global industries shift towards sustainability mandates, individuals trained in green skills will have higher job security and career progression potential.

Thus, green skill integration is not only an environmental imperative but also a tool for economic and social empowerment.

### **Case Studies & Practical Implementation**

Several global initiatives display the impact of integrating green skills into soft skill training:

- **India's Green Skill Development Programme (GSDP):** Launched by the Ministry of Environment, Forest & Climate Change, this programme trains youth in biodiversity conservation, green entrepreneurship and sustainable agriculture (GSDP, 2022).
- **Germany's Dual Vocational Training Model:** Combines soft skills with sustainable manufacturing and energy efficiency modules, preparing workers for climate-conscious industries (European Commission, 2021).
- **UNESCO's Education for Sustainable Development (ESD):** A global initiative integrating climate literacy into vocational training, bridging the gap between skills training and sustainability goals (UNESCO, 2020).

### **Challenges & Recommendations**

Despite the clear benefits, several challenges hinder the integration of green skills into soft skill training:

- **Limited Awareness & Funding:** Many training centres lack the resources and curriculum frameworks to incorporate sustainability education.
- **Need for Industry Collaboration:** Stronger partnerships with green sector employers are necessary to enhance job placements.
- **Resistance to Change:** Trainers and learners may require upskilling and mindset shifts to embrace green skills.

### **Proposed Solutions**

- **Develop Green Skills Modules:** Incorporate hands-on training in sustainability practices.
- **Leverage Digital Learning:** Use e-learning platforms and virtual labs for environmental education.
- **Incentivize Participation:** Offer certifications and job referrals in the green economy.
- **Engage Stakeholders:** Strengthen public-private partnerships to boost training centre capacities.

### **Future Trends in Green Skills Development**

As the global focus on climate action and sustainability grows, several emerging trends will shape the future of green skills training:

1. **Integration of Artificial Intelligence (AI) in Sustainability:** AI-powered solutions are being utilized for climate modelling, waste management and energy efficiency, requiring a workforce trained in AI-driven green skills.
2. **Expansion of Circular Economy Training:** Companies are shifting towards a zero-waste model, increasing the demand for professionals skilled in recycling, upcycling and sustainable production.
3. **Government Policy Initiatives:** Countries worldwide are launching green jobs initiatives, offering tax incentives and grants for businesses adopting eco-friendly practices, thereby expanding green employment opportunities.
4. **Green Entrepreneurship Boom:** As awareness grows, more individuals are starting green enterprises, leading to a demand for training in eco-friendly business models and sustainable finance.

These trends indicate a dynamic shift in workforce development, making green skills an essential component of future employability.

### **Recommendations**

- **Develop Green Skills Modules:** Incorporate hands-on training in sustainability practices.
- **Leverage Digital Learning:** Use e-learning platforms and virtual labs for environmental education.
- **Incentivize Participation:** Offer certifications and job referrals in the green economy.

- Engage Stakeholders: Strengthen public-private partnerships to boost training centre capacities.

## **Conclusion**

Integrating green skills with soft skill training centres presents a sustainable, future-oriented approach to workforce development. By embedding eco-conscious competencies into existing training frameworks, we can empower underprivileged youth, enhance employment opportunities, and build environmentally responsible communities. To ensure the success of green-skill Integration, policymakers, educators and industry leaders must collaborate in creating structured frameworks for training programmes. Governments can introduce incentives for green employment, corporations can launch CSR-driven skill development programmes and NGOs can support grassroots-level eco-training initiatives. By leveraging existing training infrastructures, fostering public-private partnerships and promoting community-driven sustainability projects, we can create a generation of skilled professionals equipped to tackle environmental challenges while improving their socio-economic status. Ultimately, the fusion of green skills with soft skills training is not just an educational necessity - it is a catalyst for global change.

## **References**

- European Commission. (2021). Green skills for a sustainable economy: A European perspective. <https://ec.europa.eu>
- GSDP. (2022). Green Skill Development Programme, India. Ministry of Environment, Forest & Climate Change. <https://gsdp-envis.gov.in>
- International Labour Organization. (2021). Skills for a greener future: A global overview. <https://ilo.org>
- International Renewable Energy Agency. (2022). Renewable energy and jobs: Annual review 2022. <https://irena.org>
- Organisation for Economic Co-operation and Development. (2022). The future of green jobs and skills. <https://oecd.org>
- United Nations Development Programme. (2023). Empowering communities through green skills training. <https://undp.org>
- United Nations Environment Programme. (2021). Green jobs: Towards decent work in a sustainable, low-carbon world. <https://unep.org>
- United Nations Educational, Scientific and Cultural Organization. (2020). Education for sustainable development goals: Learning objectives. <https://unesco.org>
- World Bank. (2023). *Green jobs for youth: Unlocking opportunities*. <https://worldbank.org>
- World Economic Forum. (2023). *Future of jobs report: The rise of green employment*. <https://weforum.org>