ANALYZING THE NIGERIAN FEDERAL GOVERNMENT'S INITIATIVE TO MANDATE 15 ESSENTIAL SKILLS IN THE EDUCATIONAL CURRICULUM

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Abstract

In January 2025, the Nigerian Federal Government introduced a significant reform to the Basic Education curriculum by mandating the inclusion of 15 vocational and technical skills. This initiative aims to bridge the gap between academic learning and practical, employable skills, addressing the challenges of youth unemployment and aligning the education system with the demands of the 21st-century economy. This paper critically examines the rationale, implementation strategies, and potential impacts of this policy, considering its implications for educational equity, economic development, and global competitiveness.

Introduction

Nigeria's education system has long been critiqued for its emphasis on theoretical instruction, often at the expense of practical skill development. This imbalance has contributed to a significant skills gap, leaving many graduates ill-prepared for the demands of the labor market (Umo & Chukwu, 2021). Consequently, youth unemployment remains a pressing issue, with the National Bureau of Statistics (NBS) reporting an unemployment rate of 5.0% in the third quarter of 2023, up from 4.2% in the previous quarter (NBS, 2024). Among youth aged 15–24, the unemployment rate increased to 8.6% in Q3 2023, reflecting a 1.4% rise from Q2 2023 (NBS, 2024).Vanguard News+1Vanguard News+1Vanguard News+3Vanguard News+3National Bureau of Statistics+3 In response to these challenges, the Federal Government of Nigeria, through the Nigerian Educational Research and Development Council (NERDC), unveiled a

revised Basic Education curriculum in January 2025. This curriculum mandates the acquisition of 15 essential skills across various sectors, including construction, technology, agriculture, and services, for students in primary and junior secondary schools (NERDC, 2025). This initiative aims to bridge the skills gap by integrating vocational and entrepreneurial education into the foundational levels of schooling, thereby equipping students with competencies that align with labor market demands.The curriculum reform is part of a broader strategy to enhance the employability of Nigerian youth and promote sustainable economic development. By fostering a more inclusive and practical approach to education, the government seeks to create a workforce that is not only knowledgeable but also skilled and adaptable to the evolving demands of the global economy.

Rationale for the Initiative

The primary objective of this policy is to enhance the employability of young Nigerians by equipping them with practical skills that are directly applicable in the workforce. Minister of Education, Professor Tahir Mamman, emphasized that the initiative seeks to prepare students for both local and global opportunities by providing them with competencies that are in high demand in the contemporary job market. Furthermore, the inclusion of digital literacy, encompassing IT and robotics, reflects the government's commitment to integrating technology into education, ensuring that students are prepared for the digital economy.

Rationale for the Initiative: Bridging the Skills Gap for Nigerian Youth through Practical and Digital Education

The growing concern over youth unemployment in Nigeria underscores the urgent need for strategic interventions in the education sector. In response to this challenge, the Nigerian government, through the Ministry of Education, has introduced a policy initiative aimed at enhancing the employability of young Nigerians. The primary objective of this initiative is to bridge the persistent gap between academic education and the practical skills required in the modern labor market. Minister of Education, Professor Tahir Mamman, emphasized that this policy is designed not only to provide students with a robust academic foundation but also to equip them with the hands-on competencies necessary for meaningful participation in both local and global economies. One of the central tenets of the initiative is the integration of practical

skill development into the national curriculum. This approach aligns with global best practices that advocate for Technical and Vocational Education and Training (TVET) as a viable solution to unemployment and economic disempowerment among youth (UNESCO, 2016). By embedding practical skills into formal education, the policy aims to produce graduates who are "job creators" rather than "job seekers", a shift that is critical in a country with an expanding youth population and limited formal employment opportunities.

Furthermore, the policy places a strong emphasis on digital literacy, including Information Technology (IT), coding, and robotics. This emphasis reflects a strategic recognition of the Fourth Industrial Revolution (4IR) and its implications for the future of work. The inclusion of digital competencies ensures that Nigerian students are not only competitive within their national context but are also equipped to participate in the global digital economy. According to the World Economic Forum (2020), digital skills are among the top competencies required in the 21st-century workforce, and countries that prioritize digital education are more likely to experience inclusive economic growth. The Nigerian government's commitment to integrating technology into education is also in line with the United Nations Sustainable Development Goal 4 (SDG 4), which calls for inclusive and equitable quality education and the promotion of lifelong learning opportunities for all (United Nations, 2015). By incorporating IT and robotics into the curriculum, the policy supports the creation of a technologically literate citizenry that is adaptable, innovative, and prepared for the complexities of the modern world. Moreover, the initiative responds to the changing nature of work, where traditional roles are being disrupted by automation and artificial intelligence. As such, the development of digital fluency is not merely an added advantage but a necessity. Inculcating these skills early in students' educational journeys will facilitate smoother transitions into the workforce and better prepare them for entrepreneurial ventures in tech-related fields.

Implementation Strategies: Building a Sustainable Framework for Skills-Based Education in Nigeria

The successful execution of Nigeria's new skills-based educational initiative hinges on a multi-pronged implementation strategy, which the Federal Ministry of Education has carefully structured to ensure both short-term functionality and long-term sustainability. Recognizing the systemic nature of educational reform, the Ministry has developed a comprehensive roadmap

encompassing human capital development, curriculum enhancement, infrastructure investment, and stakeholder engagement.

1. Teacher Training and Capacity Building

A critical component of the implementation strategy is the professional development of educators. Teachers are the linchpins of curricular delivery, and equipping them with the requisite pedagogical skills is fundamental to the success of this initiative. The Ministry has launched specialized training programs aimed at enhancing the competencies of educators, particularly in the domains of vocational education and digital literacy. These training programs are aligned with international standards for teacher education and are designed to promote learner-centered teaching methodologies, which have been shown to improve student engagement and achievement (Darling-Hammond *et al.*, 2017). In addition to pre-service and in-service training, partnerships with teacher training institutions and international education bodies are being explored to ensure that instructors remain abreast of global trends in technical and digital education. Continuous professional development (CPD) models will also be implemented to foster a culture of lifelong learning among educators.

2. Curriculum Development and Flexibility

The new curriculum has been crafted to offer both depth and flexibility. Students will now have the opportunity to select one or two vocational subjects in tandem with their traditional academic coursework. This dual-track system enables learners to cultivate practical competencies while maintaining their academic trajectory. The inclusion of subjects such as agriculture, carpentry, fashion design, computer programming, and robotics aims to cater to diverse interests and labor market demands, thus promoting inclusivity and engagement. The flexible curriculum model reflects principles of differentiated instruction and supports the development of multiple intelligences (Gardner, 2006). Moreover, by offering pathways that lead to either immediate employment or further education, the curriculum aligns with UNESCO's recommendations for education systems in developing countries to be more responsive to socio-economic realities (UNESCO, 2015).

3. Infrastructure and Learning Resources

To accommodate the new curriculum, significant investment in infrastructure is required. This includes the construction and renovation of workshops, science laboratories, digital learning centers, and makerspaces. The Ministry has prioritized funding allocations for schools to upgrade their physical facilities to ensure a conducive learning environment for practical and technical training. In parallel, the development and distribution of instructional materials—such as vocational training manuals, digital learning content, and interactive media—are underway. The integration of technology into classroom instruction, including the use of e-learning platforms and simulation tools, is expected to enrich the learning experience and broaden access, particularly in underserved regions.

4. Stakeholder Engagement and Policy Alignment

The implementation strategy also underscores the importance of stakeholder collaboration. Partnerships with industry leaders, private sector organizations, and non-governmental bodies are being cultivated to provide students with exposure to real-world applications of their skills. These collaborations may include internships, mentorship programs, and job placement schemes, which serve as critical bridges between education and employment. Moreover, the initiative is being harmonized with national policy frameworks such as the *National Policy on Education (2013)* and the *Nigeria Economic Sustainability Plan (2020)*, ensuring coherence and alignment across government sectors. Such policy synchronization is vital for mobilizing resources and sustaining political commitment.

Conclusion

In sum, the Federal Ministry of Education's multi-faceted implementation strategy demonstrates a proactive approach to transforming the Nigerian education system to meet 21st-century demands. Through targeted investments in teacher training, curriculum flexibility, infrastructural development, and multi-stakeholder collaboration, the initiative lays a robust foundation for fostering employability and lifelong learning among Nigerian youth. As implementation unfolds, continuous monitoring, feedback mechanisms, and adaptive policy frameworks will be essential to ensure the initiative's effectiveness and scalability.

Potential Impacts

Economic Development: By equipping students with market-relevant skills, the policy aims to reduce unemployment rates and stimulate economic growth through entrepreneurship and self-employment.

Educational Equity: The introduction of vocational training at the basic education level provides students from diverse backgrounds with equal opportunities to acquire skills that can lead to sustainable livelihoods.

Global Competitiveness: Integrating digital literacy and technical skills into the curriculum positions Nigerian students to compete effectively in the global economy, aligning with international standards of education.

Potential Impacts: Advancing Economic Growth, Social Equity, and Global Relevance through Skills-Based Education

The implementation of Nigeria's new educational policy, which emphasizes vocational and digital skills development, is poised to generate far-reaching impacts across economic, social, and international domains. By targeting core challenges in employability, equity, and global competitiveness, the initiative represents a strategic investment in national development.

1. Economic Development and Workforce Productivity

One of the most immediate and measurable outcomes of this policy is its potential to reduce youth unemployment and underemployment. By equipping students with practical, market-relevant skills ranging from artisanal trades to IT and robotics—the initiative enhances the employability of school leavers and tertiary education graduates alike. This strategy aligns with evidence suggesting that technical and vocational education and training (TVET) can significantly contribute to economic development by preparing a skilled labor force tailored to the needs of modern economies (Afeti & Adubra, 2012). Moreover, the inclusion of entrepreneurial education within vocational curricula promotes job creation through self-employment. In a country like Nigeria, where the formal sector cannot absorb the growing

number of job seekers, fostering entrepreneurial mindsets is essential. Studies show that entrepreneurial education leads to higher rates of business formation among youth, which in turn contributes to economic diversification and resilience (World Bank, 2018).

2. Educational Equity and Inclusive Development

Another important impact of the policy is its potential to promote educational equity. The integration of vocational subjects at the basic and secondary levels of education ensures that students from varied socioeconomic backgrounds have access to skills training that can lead to immediate or future income-generating opportunities. This is particularly significant in rural and underserved communities, where access to quality education and employment pathways has traditionally been limited. By offering multiple learning tracks, the initiative aligns with the concept of inclusive education, which advocates for flexible curricula that respond to diverse learner needs and contexts (UNESCO, 2020). Furthermore, the policy supports the principle of *equity of outcome* not just equity of access by ensuring that all students acquire skills that enhance their life prospects, regardless of their academic aptitude or social status.

3. Global Competitiveness and Technological Advancement

Incorporating digital literacy, coding, and robotics into the national curriculum also enhances Nigeria's position in the global knowledge economy. As the world transitions toward the Fourth Industrial Revolution (4IR), characterized by automation, artificial intelligence, and digital interconnectivity, nations must equip their citizens with the skills required to thrive in an increasingly technology-driven world. By aligning the curriculum with international benchmarks in science, technology, engineering, and mathematics (STEM) education, the policy ensures that Nigerian students can compete globally. According to the World Economic Forum (2020), proficiency in digital skills is a key determinant of both individual employability and national competitiveness. Countries that fail to prepare their youth for the digital economy risk being left behind in global development metrics. Furthermore, exposure to global best practices through digital education may foster international mobility, cross-border collaboration, and innovation, ultimately enhancing Nigeria's soft power and global influence.

Challenges and Considerations

Despite the promising objectives, the implementation of this policy faces several challenges. There is a need for adequate funding to support the infrastructural and human resource requirements. Additionally, there must be continuous monitoring and evaluation to assess the effectiveness of the curriculum and make necessary adjustments. Stakeholder involvement, including that of parents, teachers, and the private sector, is crucial to ensure the sustainability and relevance of the program.

Challenges and Considerations: Addressing Barriers to Effective Implementation of Skills-Based Education in Nigeria

While the objectives of Nigeria's newly adopted skills-based education policy are laudable and aligned with global educational trends, its successful implementation is not without significant challenges. These challenges cut across financial, institutional, and socio-cultural dimensions, and addressing them will be key to ensuring the policy's long-term sustainability and effectiveness.

1. Funding and Resource Allocation

One of the most pressing challenges is securing adequate and sustained funding. Implementing a curriculum that integrates vocational training and digital literacy requires substantial investment in infrastructure, instructional materials, and teacher training programs. Many schools, particularly in rural and underserved areas, lack the basic facilities necessary for technical and vocational education (TVET), such as workshops, laboratories, and ICT centers (Oketch, 2007). Moreover, recurrent costs such as teacher salaries, equipment maintenance, and curriculum updates necessitate long-term financial planning. Inadequate public financing of education in Nigeria—consistently below the UNESCO-recommended benchmark of 15–20% of national budgets poses a risk to the scalability and quality of implementation (UNESCO, 2021). As such, there is a need for innovative funding models, including public-private partnerships, donor support, and community-based financing mechanisms.

2. Monitoring, Evaluation, and Curriculum Adaptability

Another core consideration is the establishment of robust systems for monitoring and evaluation (M&E). Continuous assessment of program outcomes is essential for measuring the effectiveness

of curriculum implementation and making evidence-based adjustments. Without clear performance indicators, there is a risk that the policy may fail to meet its objectives or lose momentum due to implementation fatigue or misalignment with labor market needs. Effective M&E frameworks should include both quantitative metrics (e.g., employment rates, student performance, dropout rates) and qualitative feedback from stakeholders. These mechanisms should be embedded at both national and sub-national levels to ensure responsiveness and adaptability (OECD, 2015).

3. Human Capital Development and Teacher Preparedness

The policy's success hinges on the availability of qualified teachers capable of delivering both academic and vocational content. However, Nigeria faces a significant shortage of trained technical and vocational instructors, many of whom lack updated skills in emerging fields like information technology, coding, and robotics (Ayonmike, 2014). Building human capacity will require strategic investments in teacher education, including pre-service training, in-service professional development, and certification programs. Furthermore, there must be incentives to attract and retain teachers in the vocational education sector, which has historically been under-resourced and undervalued.

4. Stakeholder Engagement and Societal Perceptions

Stakeholder involvement is critical for the sustainability and relevance of the program. The successful rollout of vocational and digital education requires the collaboration of multiple actors government agencies, school administrators, teachers, parents, students, and the private sector. In particular, partnerships with industry players are essential for aligning skills training with labor market demands and for facilitating internship and apprenticeship opportunities (ILO, 2017). However, societal attitudes toward vocational education in Nigeria remain a barrier. Vocational tracks are often perceived as inferior to academic ones, contributing to low student enrollment and limited parental support. Shifting these perceptions will require public awareness campaigns, success stories, and policy incentives that elevate the status and visibility of vocational careers.

Conclusion

In conclusion, while the policy initiative to incorporate vocational and digital education into Nigeria's basic and secondary curriculum holds transformative potential, its implementation must be approached with careful planning and strategic foresight. Addressing challenges related to funding, human capital, evaluation mechanisms, and stakeholder engagement will be essential to translating policy into practice. A participatory, well-funded, and continuously assessed approach will be critical to ensuring that the initiative not only survives political cycles but also achieves its intended developmental impact.

References

Federal Ministry of Information and National Orientation. (2025). Nigeria's Education Gets a Boost: 15 New Trades to Empower Students for Global Competitiveness. Retrieved from https://fmino.gov.ng/nigerias-education-gets-a-boost-15-new-trades-to-empower-students-for-global-competitiveness/

Nairametrics. (2025). Nigeria updates basic education curriculum with 15 new trades to enhance student employability. Retrieved from https://nairametrics.com/2025/01/24/nigeria-updates-basic-education-curriculum-with-15-new-trades-to-enhance-student-employability/

The Guardian Nigeria. (2025). Nigeria adds 15 new trade subjects to basic education curriculum. Retrieved from https://guardian.ng/features/education/nigeria-adds-15-new-trade-subjects-to-basic-education-curriculum/

National Bureau of Statistics (NBS). (2024, February 19). *Nigeria's unemployment rate rises by 0.8 per cent in Q3 2023*. Vanguard News. https://www.vanguardngr.com/2024/02/nigerias-unemployment-rate-rises-by-0-8-per-cent-in-q3-2023-nbs/

Nigerian Educational Research and Development Council (NERDC). (2025). *NERDC and UBEC form strategic partnership to roll out new curriculum for Nigerian schools in 2025*. Universal Basic Education Commission (UBEC). https://ubec.gov.ng/nerdc-and-ubec-form-strategic-partnership-to-roll-out-new-curriculum-for-nigerian-schools-in-2025/

Umo, J. U., & Chukwu, J. O. (2021). *Reforming Nigeria's education system: Bridging the gap between theory and practice*. Journal of Educational Development, 15(2), 45-60.

UNESCO. (2016). *Strategy for Technical and Vocational Education and Training (TVET) (2016-2021)*. United Nations Educational, Scientific and Cultural Organization.

World Economic Forum. (2020). *The Future of Jobs Report 2020*. Retrieved from www.weforum.org

United Nations. (2015). *Transforming our world: the 2030 Agenda for Sustainable Development*. Retrieved from https://sdgs.un.org/goals

Darling-Hammond, L., Hyler, M. E., & Gardner, M. (2017). *Effective Teacher Professional Development*. Learning Policy Institute. Retrieved from https://learningpolicyinstitute.org/product/effective-teacher-professional-development-report

Gardner, H. (2006). *Multiple Intelligences: New Horizons*. Basic Books.

UNESCO. (2015). *Rethinking Education: Towards a global common good?* United Nations Educational, Scientific and Cultural Organization.

Federal Republic of Nigeria. (2013). *National Policy on Education* (6th Edition). Nigerian Educational Research and Development Council.

Federal Government of Nigeria. (2020). *Nigeria Economic Sustainability Plan*. Retrieved from https://nesp.gov.ng

Afeti, G., & Adubra, A. (2012). *Lifelong Technical and Vocational Skills Development for Sustainable Socio-Economic Growth in Africa*. African Union.

UNESCO. (2020). *Inclusion and Education: All Means All – Global Education Monitoring Report 2020*. United Nations Educational, Scientific and Cultural Organization.

World Bank. (2018). *World Development Report 2019: The Changing Nature of Work*. Washington, DC: World Bank.

World Economic Forum. (2020). *The Future of Jobs Report 2020*. Retrieved from www.weforum.org.

Ayonmike, C. S. (2014). *Training the Technical and Vocational Education and Training (TVET) Teachers in Nigeria for the 21st Century Global Workforce*. *International Journal of Education and Literacy Studies*, 2(1), 56–60.

International Labour Organization (ILO). (2017). *Skills and jobs mismatch in low- and middle-income countries*. Geneva: ILO.

OECD. (2015). *Education Policy Outlook 2015: Making Reforms Happen*. Paris: OECD Publishing.

Oketch, M. (2007). *To vocationalise or not to vocationalise? Perspectives on current trends and issues in technical and vocational education and training (TVET) in Africa*. *International Journal of Educational Development*, 27(2), 220–234.

UNESCO. (2021). *Global Education Monitoring Report 2021/2: Non-state actors in education – Who chooses? Who loses?* Paris: UNESCO.