SCIENCE AND TECHNOLOGY LIESTI



JUNE, 2016

Journal of Information, Education, Science and Technology

ISSN: 2360-8846

SKILLS ACQUISITION: IMPERATIVE FOR TEACHERS OF TEACHER

*Audu, R., B.M. Mohammed., Kareem, W. B., S. A. Musa & S. A. Ma'afi
(Industrial & Technology Education Department,
Federal University of Technology Minna, Niger State, Nigeria

E-mail: audu rufai@yahoo.com
Mobile: +2348033174958

The globalization process, knowledge economy and the emergence of new modes of production in the industries in the 21" century have given rise to demands for training and retraining in new skills in different occupational areas, as a result of this, teachers of technical vocational education and training need to acquire skills in order to function effectively the job. The paper highlights on the concept of technical vocational education and also discussed on issues in teacher education in Nigeria. The role of teachers of technical vocational education and training in the 21" century and some challenges of technical vocational education and training were explained. Conclusions were drawn and technical vocational education and training were explained vocational education and training recommendations made among which are: that teachers of technical vocational education and training that teachers of technical vocational education and in-service should be trained by the government on a regular basis through workshops, seminar and in-service training in order to acquire new skills and update their knowledge to be able to train graduates of technical vocational education and training to acquire the skills that are needed in the 21" century workforce.

Keywords: Skills, Acquisition, Technical Vocational Education, Teachers, 21st Century.

The lack of acquisition of technical vocational skills on the part of Technical Vocational Education and Training (TVET) graduates has been considered the bane of the economy of most developing countries, especially Nigeria. This is so because, in Nigeria for instance, the educational system operated at post-independence placed emphasis on academic excellence rather than acquisition of technical vocational skills which prepare the individual for a more useful and fulfilling life within the society. In other words, the system focused and emphasized on subjects in the humanities or arts at the expense of TVET which can facilitate practical skills acquisition that is generally believed to be more relevant to the development of a nation. The system for so many years was carried on entirely like that without any conscious or deliberate effort to adapt it to the cultural, social and ethical values of our society. It is now a well-known fact that the system failed to achieve the desired objectives that were expected from the education of this country. Since education is considered the most effective means of bringing about total change that would ensure accelerated economic growth and national development for the country, there was a need to tailor the educational system to suit the local existential situation of Nigerians. This need culminated in the National Policy on Education (NPE) promulgated in 1977 and revised 1981, 1998 and 2004 (Omoruyi & Osunde, 2004). The Federal Republic of Nigeria also revised the NPE in 2013 (FRN, 2013).

A fundamental change brought about by the NPE was the recognition and introduction of TVE courses in the educational curriculum. The policy therefore marked a deliberate shift in emphasis from literary to science-oriented education and training. The policy was considered laudable because it was capable of promoting the appropriate skills at various levels of our educational system and thus promoting individual and national efficiency. According to the Federal Republic of Nigeria (FRN, 2004). Section 8B (Item 74) of the policy states that technical vocational teacher education shall continue to take cognizance of variations in the methods and curriculum and teachers be regularly exposed to improvements in their profession. The policy stipulates that the professional training of teachers is two-fold: pre-service and inservice trainings.

However, in an attempt to implement the policy through the introduction of TVET courses TVET teachers need to be trained in terms of quality and quantity to acquire the necessary skills to be able to teach

pheigrally and effectively in technological institutions in the 21° century. Kalejaye (2007) revealed that the present day TVET teachers are sound in theory but deficient in practice. According to Akuezuilo (2007) lack of qualified TVET teachers is a factor that hinders the implementation of the curriculum of the whose key implementers are not well trained and/or concerned with the teaching of such subject. In appoint of this statement, Adeleke (2006) stated that one of the challenges of Nigeria TVET curriculum content is effective finishing of the product (implementation). Poor implementation of the school's carriculum in Nigeria has caused the missing link between the goals of Nigeria education and the realization of the goals in the present 21° century. The TVET teachers are the implementers of the particulum therefore, there is the need for the teachers to be trained in order to acquire the right skills to be able to teach efficiently in the present 21° century.

Technical Vocational Education and Training

Technical Vecational Education (TVET) could be defined as that aspect of education which provides its recipients with the basic knowledge and practical skills necessary for entry into the world of work as employees or as self-employed. According to Maclean & Wilson (2009) TVET is concerned with the acquisition of skills and knowledge for employment and sustainable livelihood. Abassah (2011) expressed that TVET involves training in the process of relating both science and technical education to practical problems right from primary to higher level of education; this is because it aims at developing practical skills as well as the creative and innovative abilities and enable decision making skills and problem solving abilities. The FRN in the NPE (FRN, 2013) sees TVET as a comprehensive term referring to those aspects of the educational process involving, in addition to general education, the study of technologies and related sciences and the acquisition of practical skills, attitudes, understanding and knowledge relating to occupations in various sectors of economic and social life'. TVET can therefore be seen as the formal training of persons to become technicians and technologists in different occupations. Thus any education that is geared towards teaching technical skills and attitudes suitable to such skills can be regarded as TVE.

The main objective of all TVET programs is the acquisition of skills and attitudes for gainful employment in a specific occupation or professional area. The need to link training in TVET to employment either self or paid employment is at the base of all the best practices and approaches observed throughout the world. One of the most significant aspects of TVET is its inclination towards the world of work and the emphasis of the curriculum on the acquisition of employable skills. TVET delivery systems are therefore; well placed to train the skilled workforces that the nation needs to create employment for the youths in order for them to contribute to the development of their society and the nation.

Issues in Teacher Education in Nigeria

Teacher education is referred to as a set of events and activities which are deliberately intended to help trainees acquire skills, dispositions, knowledge, habits, attitudes, values which enable them to enter the occupation of teaching. Fafunwa (1992) defined teacher education as an attempt to equip the recipient with enough facilities to explore the validity of theories and principles within specified contexts as defined by the nature of classroom, public, environmental factors, conceptual ecology and a host of other factors. According to Gogura & Bassi (2011) the purpose of teacher education is ultimately and objectively the improvement of education in its totality. The aim of teacher education in Nigeria includes, among others, the development of the spirit of inquiry and creativity in teachers, and preparing them with the intellectual and professional background that will be sufficient for their assignments and also make them adjustable to changing situations. The FRN (2013) stated that in recognition of the pivotal role of the quality of teachers in the provision of quality education at all levels, teacher education shall continue to be emphasised in educational planning and development. According to the NPE (FRN, 2013) the goals of teacher education shall be to

- Produce highly motivated, conscientious and efficient classroom teachers for all levels of the educational system
- ii Further encourage the spirit of enquiry and creativity in teachers
- Help teachers fit into the social life of the community and the society at large and enhance their commitments for national goals
- provide teachers with the intellectual and professional background adequate for their assignment and to make them adaptable to changing situations; and
- Enhance teachers commitment to the teaching profession

& Journal of Differencial, Education, Spinistrated

Environ. Additionable (2017) observed that in the part, effort to provide TVET to a provide the content of training to the decision of training the characters for the Training to the content of training to the decision of training to the decision of the past. TVET teachers were sent abroad for entire the application in the way support. Also, they are trained through the Technical Teachers Training the resolution of the decision of the problems in TVET in Neuron is encountering a lot of problems right from the decision of materials. The same of instructional training these is the problem of materials a lot of problems right from the decision of materials. The same of the problem is the same of the decision of instructional training and the same of the decision of the decision of materials and appropriate these is the problem of materials of the need for adequate physical limits in francisc the field of TVE have expressed the need for adequate physical limits in francisc are sent to effectively implement a TVET based curriculum.

TVET Teachers for the 21" Century

ligital gap, environmental degradation, diseases, illiteracy, alterations in family and community relations are professional of the imperative need for acquiring 21" century skills and knowledge in time leading as professional to the imperative need for acquiring 21" century skills and knowledge in time leading of the species of the imperative need for acquiring 21" century skills and knowledge in time leaders, account for the imperative need for acquiring 21" century skills and knowledge in time leaders and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world. For instance Darling-Hammond (2006: 14) succinctly particular and professionals of the world.

The importance of powerful teaching is increasingly important in contemporary society. Standards for learning are now higher than they have enertheen before, as citaens and workers need greater knowledge and skill to survive and succeed. Education is increasing important to the success of both individuals and nations, and growing evidence demonstrates that among all educational resources teachers' abilities are especially crucial contributors to students' learning.

Therefore, principles and strategies must be put in place to ensure productive and fruitful partieshes a TVE teacher training, specifically in meeting the challenges of the 21st century. However, be effectiveness of the teacher training programs in Nigeria to prepare teachers for the 21st century has been questioned by a number of studies (Obanya, 2004; Ololube, 2006). Teacher- training institutions have been criticized for their inability to produce teachers who are properly grounded in pedagogy and centure as well as having the capability to team up professionally in a working environment. Educations observed that the shift from academic theories in universities to classroom practice has often been voy that pauggesting that student teachers are not often properly trained to put into practice current pedagog and interactive skills that have been theoretically learnt. Quoting the Education Sector Analysis (Kape, Thorman, Oloritade, Adebayo, Maiyanga, & Mohammed, 2009: 5) noted that:

Complaints about newly appointed teachers, who have low levels of numeracy and literacy skills as well as inadequate knowledge in their chosen areas of substitution, are common place. The low quality of graduates from the seacher training colleges and universities who are joining the teacher profession is a major issue. The assessment tests ... make it clear that students enter colleges and universities with very low levels of cognitive skill Students are caught in a cycle of low achievement, teachers with inadequal cognitive skills, and then further low achievement by students.

Therefore, effective teaching in the 21st century needs more than a basic knowledge of educational than

A COUNTY OF THE PARTY OF THE PARTY And the latter of the latter and the latter of the latter per particular de la company per la

gills at vaccous levels. Necanaka & Samuel (2011) suggested that, "linkages be made between academic

Mowever, an importance factor in skill acquisition process is exposure to practical where these skills are should be based on purposeful plans rather than chance. Only the plans, which lead to rapid acquisition of clears the way for the learning. So, ence an economy has developed basic modern skills, the wheel would have been set rolling to achieve a minimum standard of living (Nwamaka & Sarmel, 2011).

Challenges to TVET

Reducal Vocational Education and Training in Nigeria is currently faced with many problems in the present 21" century. Most Nigerians are just recovering from continuing case of negative stritude towards TVET. Nigeria is similarly just awakening from her long sleep of neglect of these aspects of education in her educational system (Apagu & Andural, 2007). The nation and her citizens are in the 21" century questioning the quantity and quality of these aspects of education in the nations system of education. Adebambo (2007) noted that in the previous, the effort to promote TVET has ignored the provision of trained teachers. He recalled that the National Teachers Traceing Certification was useded to meet the demand for TVET teachers in many technical institutions and training schools.

It was also noted by Agbolade (2007) that government neglect in terms of inadequate funding of the training program has not helped the TVET teachers hence their insufficiency in the TVET institutions. Whilst the problem of shortage of TVET teachers exists in the country generally, a study carried out by Kalejaye (2007) revealed that present day TVET teachers are good in theory but lacking in practice. TVET in New York (2007) revealed that present day TVET teachers are good in theory but lacking in practice. in Nigeria has encountered a lot of problems during its developmental stage. Amongst these is the problems of iron at of insufficient provision of instructional materials, tools and equipment. Experts in the field of TVET have

Conclusion

of Nigeria education and the realization of the goals in the present 20" century. The TVES has been excluimplementers of the carriculum therefore, for Nigeria to Sections developed technologically their interteach efficiently and effectively in technological institutions in the 2.7 century.

Recommendations

In order for TVET teachers to acquire the right skills to function effectively on the job in the 25" server.

- TVET teachers as a matter organcy should be trained by the government on a replace basis through workshops, seminar and in-service training. In antier to acquire new fails and update their knowledge to be able to train graduates of TVET programs to acquire the solid that acceled in the 20" century workforce.
- TVET institutions and local industries should collaborate to ensure that both TVET recises and students are involve in training in the industries to be ablied acquire the skills residing the industries and also share information on the changing trends in authoritial practice and how these changes can be incorporated into the curriculum of the schools.
- Workshops and Seminary should be jointly organized by government technical montant educators, technological assistations, accrediting bodies and the industries regularly to enter
- TVE teachers acquire the right skills to be able to function effectively on the job. Government, communities, industries, saligious organizations, labour anions has Coveramental Organizations (NGOs), wealthy individuals in the society family encouraged in the finding of TVET for the amount running of TVET in arms of provinced infrastructural and workshop facilities such as tools, equipment and machines in the steps for into the labour or he wind of them fit and the labour or be gainfully employed in industries or related arganizations or to

- Application of Court of Social Sciences 20 Maries Problems and Callinger Managers and Managers a
- American Publishers General and Inches al Education and Inches General Relations and Projecting Product.
- publication.
- Assessed Challenges in Nigeria Unpublished Manuscriet Unposition of Sint Country Stellar hours and Challenges in Nigeria Unpublished Manuscriet Unposition of Laws Highest
- Performance in Technical Colleges Ungublished Manacrips Department at Educational Administration University of Lagor. Nigoria
- Absorberty Alleviation in Nigeria: In the Proceedings of Nigerian Association of Tractions of Technology (NATT). Lagos: Fembis International.
- Appendix, E. O. (2007). The New 9-Year Basic Science and Technology Curriculum and Challenges of as Implementation. Journal of Curriculum and Instruction: 6(2), 1-6
- Alfred, O. (2010) Expanding Your Employment Capacity. Lagua Nigerian Graduate Advancement Publication.
- Apago, V. V., & Andural, S. I. (2007). Refocusing Nigerian Vocational Education for Relevance and Sustainable Development. Multidisciplinary Journal of Research Development. 9(1), 1-8.
- Asskans, P. O. (Ed.). (2006). Vocational and Technical Education: Issues and Prospects. Emigs: Dimension publishers
- Durling-Hammond, L. (2006). Constructing 21st-Century Teacher Education. Journal of Teacher Education: 2(2), 28-35.
- Dannani, A. (2011). Challenges Facing Technical Institute Graduates in practical Skills Acquisition in the Upper East Region of Ghans. Asia-Pacific Journal of Cooperative Education: 12(2), 67-77.
- Pafunwa, A. B. (1992). "Teacher and Teaching as a Career. Journal of Gindiri Teacher: 5(6). 12 -
- Pakeya, O. (2009). Teaching Profession and Factors Affecting Teaching Profession in Nigeria. A TEE 403
 Report. University of Ibadan, Nigeria.
- Federal Republic of Nigeria. (2004). National Policy on Education. Lagos, Nigeria. Education Research, and Development Council Press.
- Pederal Republic of Nigeria. (2013). National Policy on Education. Lagos, Nigeria. Education. Research and Development Council Press.
- Gogura, S. M. & Bassi, M. M. (2011). Issues in Leadership and Management in Nigerian Teacher Today: 14, 27-32.
- Kalejaye, K. P. (2007). Vocational Education and National Development. In A. O. Ayoola & B. P. Ehinmipare. (Eds.) Technical and Vocation Education: Assessment and Examination (Policy Issues). Ibadan: Gabesther Educational Publishers.

- Kuiper, L., Thomas, H., Olomante, G. Cr., Adebayo, T. A., Maryange, A. & Mohaman A. a.
 Transforming Tracker Education in Higgeria. A Case Smile of Comprehensive Institution in One College of Education A Paper Presented at Distance Education and James Paper
 Africa Conference. Access, Chinas
- Maclean, R. & Wilson, D. (2009) International Flandbank of Education for the Character. Wards.

 Hark: Bridging Academic and Viscotianal Learning Dordreche Springer Science, Media.
- Nwanaka, C. R. & Samuel, A. (2011). Skulls Augmaition: Imperative for Business Studies. Vice of Among Secondary Schools in Rivers State. Mediterromeon Journal of Social Science, https://doi.org/10.1008/
- Obanya, P. (2004). The Difference of Education in Africa, Badan, Heinemara Educational bada-
- Omarayi, F. E. O. & Osunde, A.U. (2004). Evaluating the Effectiveness of the National Society Employment and Forational Skill Acquisition Programme in Midwestern Higeria Bases February, 26" 2013 from www.nz-dvv.de/index.php?article_id=372&clang
- Onyone, V. E., Olusanya, O., Salisu, R. A., & Johnson, O. (2007). Production of Skill-Oriented Control for the Labor Market. A Paper Presented at the 1st International Conference of the pages.

 Association for Educational Administration and Planning Lagos, Higgaria: MAFAP.
- Peace, Y. B. (2009). Comparative Analysis of Business Studies Activities in Nigerta A Paper Presented National Conference on Sustainable Development in Nigeria. Uyo, Akwa Ibom State Nigera.
- Payate, S. T. (2001). Manpower Development Through Relevant Technology Education Currents for Sustainable Poverty Alleviation. In the Proceedings of the Conference of the Nigeria Associated Teachers of Technology (NATT). Lagos: Femb is international.