ASSESSMENT OF THE UTILIZATION OF INFORMATION AND COMMUNICATION TECHNOLOGYINLITERACY CENTRESIN IBADAN NORTH, OYO STATE

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Abstract

The purpose of this study was to assess the utilization of information and communication technology in literacy centres in Ibadan North L.G.A. The population of the study comprises of adult learners in all mass literacy centres and advance learning centres in Ibadan North. The correspondents were randomly selected in selected centres within the study area. And the total number of eighty-five adult learners were used for the study. The data gathering instrument was by questionnaire administered on a randomly sample of Ten Adult centres in Ibadan North. Data collected were analyzed using frequencies and percentages for research question one and mean rating statistics for research question two. The study showed that the use of ICT facilities improved the teaching and learning in adult centers, helps adults to learn at their own pace, extends a wide range of experiences to the pupils and helps to improve adultperformances. The researcher proffers this as recommendation, adequate provision of ICT facilities, employment of efficient ICT personnel and periodical personnel training should be a top priority.

Keywords: Assessment, Information Communication Technology (ICT), Adult Learners, Literacy Centres and Utilization.

Introduction

Information and Communication Technology (ICT) have become an integral part of education all over the world. In order to transfer relevant information, skills, values, attitudes and knowledge to adult learners, it requires proper and effective communication. Teaching and learning is all about communication between the facilitators and the learner or between the learner and the learning materials which involves giving and receiving information, means of transferring information or lesson content to learner are of great importance (National Open University of Nigeria, 2012). Information and Communication Technology (ICT) refers to technologies that provide access to information through telecommunications. In the past few decades, information and communication technologies have produced society with a vast array of new communication capabilities. For example, people can communicate in real terms with others in different countries using technologies such as internet, voice over IP, and video conferencing. Social networking website like face-book allows the users from all over the world to ream in contact and communicate on a regular basis. Computer education was endorsed into Nigerian educational system in the late 1980s based on the recommendation of 32nd ministerial council on education in 1987 (FRN, 2004). The role of ICT in advancement of knowledge and skills necessary for the effective functioning of an individual in the modern world was further stressed the National Policy on Education (2004). Information and communication technology was defined as the use of computer and telecommunication systems in collecting, collation, analysis, processing and retrieval, transmitting and communicating difference forms of data which may include audio, visual and audio-visual format (Okafor, 2002). Communication is a process of conveying information between two or more mediums, individuals or organizations. Similarly, Ofodu (2007) sees ICT as electronic and computerized devices, assisted by human and interactive materials that can be used for a wide range of teaching and learning as well as for personal use. In effect, ICT has reduced the barriers that characterized interrelationship in terms of space, time and learning activities.

Information and communication technology is an element in all our lives and has a central role to play in adult education. Nowadays ICT systems have shown that they offer great

advancement for both facilitators and adult learners in various disciplines. The use of ICT empowers the facilitators to estimate necessary information on learning instructional materials through the internet. It becomes obvious that adult facilitators maximize ICT gain in their career through computer literacy skills acquisition (Akindolu, 2000). It is only computer literate facilitators and adult learners that can effectively use vast electronic information available in the world for teaching improvement (Okafor, 2006). Akindolu (2006) opined that if ICT is not inculcating in adult centres, it will reduce their potential and limit the level of impacting knowledge into the adult learners. With ICT resources utilization, teaching and learning can be carried out with or without physical or face to face contact as is hither to the case in the traditional approach ICT has tremendously and positively affected developments in all facets of human endeavor particularly in contemporary times. ICT resources utilization in teaching adults in IbadanNorth will facilitate knowledge acquisition and dissemination by adults within and between various subjects. In this way, human input is reduced to barest minimum, with better and more effective performance. Acquiring these skills will however enable them to cope with and adapt to the challenges of the modern day educational system and world of work (Ngurukwem, 2006). Since the evolution of information and communication technologies (ICTs), giving and receiving information have not remained the same. ICT is gaining global recognition in the evolution of information dissemination (National Open University of Nigeria, 2012).

According to the United Nations Development Program (UNDP) in a UNESCO article (2008), ICT are defined as information handling tools- a varied set of goods, applications and services that are used to produce, store, distribute and exchange information. They include 'old' ICT of radio, television and telephone, and 'new' ICT of computer satellite and wireless technology and the internet. These different tools are now able to work together and combine to form our 'networked world' - a massive infrastructure of inter connected telephone services standardized computing hardware, the internet, radio and television which reaches into every corner of the globe. Badmus (2004) defines ICT as an umbrella term that cover communication devices or applications that include computer, television radio, networks, satellites, video conferencing and learning. It is this researcher's view that, in adult education, adult learners therefore need to utilize these technologies for purposes of research lesson preparation, lesson delivery, assignment issuing and submission. The technology tends to improve sources and quality of information obtained, effectiveness and accuracy, which traditional methods did not have. Therefore, introducing ICT to teaching and learning give adult learners the opportunities to access information of their interest and interact with experts in other parts of the world. This will help to further develop their knowledge as well as make them gain new information. According to Slinger (2005), adult learning is more robust and their knowledge and understanding increase where ICTS are used. However, despite the benefits of ICT in teaching - learning process, facilitators and centres management are not interested in using ICT for instructional purposes. This has been attributed to many factors which include inadequate funds, poor condition of electricity, facilitators' incompetence and pervasive poverty in the society (Aja, 2013). It is based on this that the researcher sought to investigate the assessment of the utilization of ICT by adult learners in Ibadan North of Oyo State.

The importance of ICT has been recognized by educational institution worldwide. Watson (2001) asserts that ICT has influenced the way people function today, both personally and professionally, which demand change in the educational arena. Adult centres that train their adults in the yesterday's skills and outdated technologies are not meeting the needs of tomorrow

world. Such adults will not fit into tomorrow's professional requirement. Effective use of ICT is crucial to countries that are progressing towards information or knowledge - based society.ICT for education identifies the development of information and communication technology especially for teaching learning purposes while ICTS in education includes the adoption of basic elements of information and communication technologies in the teaching – learning process. ICT provides great flexibility in education to ensure that learners are able to access knowledge anytime and from anywhere. Education is not just teaching students based on prescribed syllabus in the four walls of a classroom, it has much border objectives, goals as well as other concepts. ICT is an answer to this concept. It helps deliver education anytime and from anywhere. It also affects the way knowledge is imparted and adult learning process since learning will be effective if only the strategies are learner-driven rather than being facilitators-driven.ICT is a powerful tool for promoting educational opportunities. It transforms the process of teaching and learning environment by including element of vitality to the learning milieu. Present day education system insists on research, critical thinking, and evaluation skill since adults have access to large variety of sources to get information. Hence, the learning environment provided should follow an effective application of knowledge that adults are required to master, in order to avoid the attained knowledge being passive, furthermore, facilitators need to encourage adult learners to be active learners so as to engage in active knowledge construction.

It has been discovered through series of observations that some literacy and adultcentresdo not make use of ICT facilities while teaching. The use of ICT facilities improves the teaching and learning in adult centres. There is inadequate provision of ICT facilities in adult centres and facilitatorsneed to make use of them effectively when teaching. It is against this backdrop that the researcher wishes to assess the availability and utilization of Information and Communication Technology for adult learners in Ibadan North L.G.A.

The objective of this study is to:

- 1. assess the available ICT devices in adult education centres in Ibadan North L.G.A.
- 2. find out the utilization of available ICT devices by adult facilitators in Ibadan North L.G.A.
- 3. find out the adequacy of personnel operating ICT devices in adult literacy centresin Ibadan North L.G.A.

Research questions

The following research questions were raised in the study:

- 1. What are the available ICT devices in adult centres in Ibadan North L.G.A?
- 2. How do adult instructors make use of the available ICT devices?
- 3. How adequate are the facilitators or personnel to operate the ICT devices in these adult centers?

Research hypotheses

- 1. There is no significant difference in adult facilitator utilization of ICT devices in Ibadan North L.G.A on the basis of gender.
- 2. There is no significant difference in adult facilitator utilization of ICT devices in Ibadan North L.G.A on the basis of qualification.

3. There is no significant difference in adult facilitator utilization of ICT devices in Ibadan North L.G.Aon the basis of years of experience.

Methodology

This study adopted descriptive survey design. The population of the study consist of adult learners in all adult learning centres in Ibadan North L.G.A. All adult learners present in the learning centres were sampled for the study employing the use of convenience sample technique; due to the nature of learning centres attendance. A researcher designed questionnairetitled Adult Learners Opinions on ICT use in Ibadan north L.G.A was used for data collection. The questionnaire was divided into three parts of section A,Band C. Section 'A' comprises of items on the available ICT facilities in each centres, section 'B' gathered information about the attitude of adults towards the use of ICT facilities in adult centresand Section 'C' gathered information on adequacy of personnel to operate ICT devices. The questionnaire was measured on 4 items Likert Strongly Agree (4), Agree (3), Disagree (2) and Strongly Disagree (1) where respondents were required to ticking that which best represent their views. The instrument was validated by the experts in the areas of Adult Education and Community Development and pilot study were conducted with selected adult learners who were not included in the study. A reliability index of 0.65 was obtained which was the premise on which the instrument was adjudged reliability. Research question one wasanswered with frequencies and percentages, while Research questions two and three were answered with mean rating statistics. Hypothesis one was tested using t – test statistics while hypotheses two and three were tested using analysis of variance (ANOVA) statistic, all at 0.05 level of significance. For the purpose of the study, one hundred questionnaires were administered; however, eighty-five questionnaires were properly filled and returned, a return rate of eighty-five percent (85%).

Results Research Question One:What are the available ICT devices in literacy/adult centres in Ibadan

North L.G.A?

Table 1: The available ICT devices in Literacy/Adult Centres in Ibadan North L.G.A

S/N	ICT RESOURCES	N	YES FREQUENCY (%)	NO FREQUENCY (%)	INTERPRETATION
1	Projectors	85	9(9.0)	91(91.0)	Not Available
2	Computer sets	85	83(83.0)	17(17.0)	Available
3	Radio (tape recorder)	85	40(40.0)	60(60.0)	Not Available
4	Television sets	85	27927.0)	73(73.0)	Not Available
5	Microphone	85	14(14.0)	86(86.0)	Not Available
6	Electronic notice board	85	4(4.0)	96(96.0)	Not Available
7	Modem	85	5(5.0)	95(95.0)	Not Available
8	Video recorder	85	0(0)	100(100.0)	Not Available
9	Satellite Dish	85	0(0)	100(100.0)	Not Available
10	USB cord/card	85	17(17.0)	83(83.0)	Not Available

	reader				
11	UPS	85	24(24.0)	76(76.0)	Not Available
12	Digital camera	85	3(3.0)	97(97.0)	Not Available
13	White board	85	19(19.0)	81(81.0)	Not Available
14	Cell phone	85	28(28.0)	72(72.0)	Not Available

As shown on table 4, projectors, radio (tape recorder), television sets, microphone, electronic notice board, modem, video recorder, satellite dish, USB cord/card reader, UPS, digital camera, white board, cell phone were not available while computer sets were available.

Research Question Two: How adequate are the personnel to operate the ICT devices in Literacy/Adult Centres in Ibadan North L.G.A?

The instrument was measured on a 4 items Likert scale of: Strongly Agree (4), Agree (3), Disagree (2) and Strongly Disagree (1) with an average mean response of at least 2.5 being the bench mark for ascertaining adequacy.

Table 2: Mean Responses of Adequacy of Personnel to Operate ICT devices

S/N	Adequacy of Personnel to Operate ICT devices	N	MEAN RESPONSE	INTERPRETATIO N
1	There is adequate personnel to operate ICT devices in your schools	85	2.2100	Not adequate
2	There is development programme for ICT personnel in your school	85	1.9500	Not adequate
3	There is motivation for the use of ICT in your school	85	2.1212	Not adequate
4	Most of the ICT devices in your school are in good condition	85	1.8700	Not adequate
5	Most of the ICT devices in your school are of current standard	85	1.8300	Not adequate

As shown on Table 2; with a mean response of 2.21, 1.95, 2.12, 1.87, 1.83 and 1.96; all below 2.5 of the average means response, adult centresdo not have adequatepersonnel to operate ICT device, there was no development programme for ICT personnel, there is no motivation for the use of ICT, the available ICT devices are not in good condition, and the available ICT devices are substandard respectively.

Research Question Three: How do adult learners make use of the available resources?

The instrument was measured on a 4 items Likert scale of: Strongly Agree (4), Agree (3), Disagree (2) and Strongly Disagree (1) with an average mean response of at least 2.5 being the bench mark for ascertaining usage.

Table 3: Meanresponse of how Adult learners make use of the available resources

S/N	ICT RESOURCE UTILIZTION	N	MEAN	RESPONSE
5/14	Tel Resource Chelenon	14	RESPONS	INTERPRETATIO
			E	<u>N</u>
1	The use of ICT facilities improves the	85	3.5612	Affirmative
	teaching and learning in adult centres		3.3012	
2	The use of ICT facilities attracts adults	85	2 6202	Affirmative
	attention		3.6392	
3	The use of ICT facilities helps adults to learn	85	2.1.622	Affirmative
	at their own pace		3.1633	
4	The use of ICT facilities extends a wide	85		Affirmative
•	range of experiences to the adults	00	3.4687	1 11111 11 W
5	Adults performance increase at the adoption	85		Affirmative
3	of ICT facilities	65	3.2990	Ailmauve
-		0.5		Non-affirmative
6	Adults get bored with the use of ICT	85	1.8632	Non-amrinative
_	facilities	0.5		N
7	The use of ICT do not contribute to the	85	1.7789	Non-affirmative
	success of adults in examination		1.770)	
8	Most facilitators do not use ICT facilities	85	2.9479	Affirmative
	while teaching		2.3413	
9	The use of ICT facilities in teaching hamper	85		Affirmative
	the duration of other subjects on the		2.5312	
	timetable			
10	The use of ICT waste money, time and	85		Non-affirmative
10	· · · · · · · · · · · · · · · · · · ·	05	1.6495	Tion allimative
	hence, it should be abolished		1.07/5	

As shown on Table 3; with a mean response of 2.50 and above, teachers agreed that ICT facilities use improves the teaching and learning in adult learners, attracts adults' attention, helps adults to learn at their own pace, extends a wide range of experiences to the adults and helps to improve adults' performances. The respondents also observed that adults do not use ICT facilities while teaching and the use of ICT facilities in teaching also hamper the duration of other subjects on the timetable. Also as shown on the table, with a mean response of less than 2.50, adults do not get bored with the use of ICT facilities and the use of ICT contributes to the success of adults in examination and does not waste money and time.

Hypotheses Testing

Three null hypotheses were formulated in this study and tested at 0.05 level of significance. Hypothesis one was tested using t-test while hypotheses two and three were tested using ANOVA statistical analysis.

Ho₁: There is no significant difference in adult learnersutilization of ICT devices in Ibadan North L.G.Aon the basis of gender.

The data collected from the study was analyzed as shown on Table 4.

Table 4: t-test summary of the difference in adult learners Utilization of ICT devices in Ibadan North L.G.Aon the basis of gender

Gender	N	Mean	Std. Deviation	df	Cal. T	p-value	Decision
Male	21	28.4762	2.33707				
Female	64	27.5625	3.10593	83	1.236	.220	Do not reject

As shown on table 4; the p-value: 0.22 is greater than sig value: 0.05 and the decision is do not rejecthypothesis one. This means that there is no significant *difference* in adult learners'utilization of ICT devices in Ibadan North L.G.A on the basis of gender.

H₀₂: There is no significant difference in adult learners Utilization of ICT devices in Ibadan North L.G.A on the basis of qualification

The data collected from the study was analyzed as shown on Table 5.

Table 5: Analysis of Variance Summary table on the difference in adult learners utilization of ICT devices in Ibadan North L.G.A on the basis of qualification

Course		•	·	•	•	Decision
Source	Sum of Squares	df	Mean Square	F	p-value	
Between Groups	3.793	2	1.897	.214	.808	Do not reject
Within Groups	726.395	82	8.858			-
Total	730.188	84				

As shown on table 5; thep-value: 0.808 is greater than p- value: 0.05 and so the decision is to accept hypothesis two. This means that there is no significant difference in adult learners Utilization of ICT devices in Ibadan North L.G.A on the basis of qualification.

 \mathbf{H}_{03} : There is no significant differences in adult learners Utilization of ICT devices in Ibadan North L.G.A on the basis of years of experience

The data collected from the study was analyzed as shown in Table 6.

Table 6: Analysis of Variance Summary table on the difference in adult learners Utilization of ICT devices in Ibadan North L.G.A on the basis of qualification

Source		•	•		•	Decision
Source	Sum of Squares	df	Mean Square	F	p-value	
Between Groups	93.914	6	15.652	1.919	.088	Do not Reject
Within Groups	636.275	78	8.157			
Total	730.188	84				

As shown on table6; the p-value: 0.088 is greater than p- value: 0.05 and so the decision is to accept hypothesis three. This means that there is no significant difference in adult learners Utilization of ICT devices in Ibadan North L.G.A on the basis of years of experience.

Discussion of the Findings

Based on the data collected, analyzed and interpreted, the following findings are obtained. Finding revealed that only computer setswere available in many adult centres while projectors, radio (tape recorder), television sets, microphone, electronic notice board, modem, video recorder, satellite dish, USB cord/card reader, UPS, digital camera, white board, cell phone were not available. This is in line with Aja (2013) that many factors which include inadequate funds, poor condition of electricity, facilitators' incompetence and pervasive poverty in the society are challenges facing availability of ICT in most adult centres. Many adult education centresin Ibadan North L.G.A do not have adequatepersonnel to operate ICT device, there was no development programme for ICT personnel, while the available ICT devices are not in good condition, and are sub-standard. It becomes obvious that adult facilitators maximize ICT gain in their career through computer literacy skills acquisition (Akindolu, 2000). It is only computer literate facilitators and adult learners that can effectively use vast electronic information available in the world for teaching improvement (Okafor, 2006).

Adult facilitators agreed that ICT facilities use improves the teaching and learning in adult centres, attractsadult learners' attention, helps them to learn at their own pace, extends a wide range of experiences to improve their performances. This is line with Slinger (2005), and Okafor (2006) that learning is more robust and the knowledge and understanding of adult learners increases when ICT is used to teach them. This will give them the opportunities to use computer to improve their learning. Also adult facilitators also will maximize ICT gain in their careers through computer literacy skills that they acquired. This will help them to be competing with their counterparts at any level in the world. The respondents also observed that their facilitators do not use ICT facilities while teaching and the use of ICT facilities in teaching also extends the duration of other subjects on the timetable. This is in line with Akindolu (2006) opined that if ICT is not inculcating in adult centres, it will reduce their potential and limit the level of impacting knowledge into the adult learners. There is a finding that adult learners do not get bored with the use of ICT facilities and the use of ICT contributes to the success of adults' success and does not waste money and time. There was no significant difference in adult learners' utilization of ICT devices in Ilorin metropolis on the basis of gender, qualification as well as years of experience.

Recommendations

The following recommendations weremade based on the findings of the study:

- 1. There should be adequate provision of ICT facilities in literacy/adult education centres, periodical personnel training should be a top priority and adequate maintenance of ICT facilities within centres should be encouraged.
- 2. There should be constant check and replacement among the regular routines in all the ICT centers, and upgrading to the latest standard of all the ICT devices.
- 3. Motivation should be given to the facilitators for the usage of the available ICT facilities. Culture of maintenance should be encouraged among all the users of ICT facilities especially the adults.
- 4. There should be the provision of library facilities as most of the learners think it will help them to study better.
- 5. Government should put in place policies that will guide the establishment of adult centres to have resources that are required for successfully implementation of the programme.

Conclusion

The study shows that adult centres in Ibadan North L.G.A do not have adequate personnel to operate ICT devices. This was confirmed through the responses gathered from the respondents. The study also showed that centres are poorly equipped with ICT facilities. This was so because few respondents indicated the presence of projectors, radio (tape recorder), television sets, microphone, electronic notice board, modem, video recorder, satellite dish, USB cord/card reader, UPS, digital camera, white board and cell phone. Those that are present were not sufficient enough. The study also shows that there is significant influence on adult success through the use of ICT facilities in adult centres within Ibadan North L.G.A. This may mean that ICT facilities have been of great help to both adults and teaching-learning processes in Ibadan North L.G.A.

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