

COMPUTER-BASED LITERACY AND NUMERATION TRAINING FOR LEARNING CITIZENS AT THE CENTER FOR COMMUNITY LEARNING ACTIVITIES PKBM BINA WARGA MEKARJAYA

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Abstract

The Community Learning Activity Center Community in PKBM Bina Warga Mekarjaya Development is a non-formal institution that organizes equivalency package activities in Bandung, Indonesia, which has run a computer-based national assessment test with computer-based literacy and numeracy competencies being tested, thus inviting partners to help guide and provide training for students to have these skills. Based on these needs, the community service team of Bale Bandung University, in accordance with the agreement with the management of PKBM Bina Warga Mekarjaya , carried out this service in the form of literacy and numeracy training for students at PKBM Bina Warga Mekarjaya ahead of the implementation of the computer-based national assessment test.

Keywords: *literacy, numeracy, assessment national.*

Abstrak

Pusat Kegiatan Belajar Masyarakat PKBM Bina Warga Mekarjaya merupakan lembaga nonformal yang menyelenggarakan kegiatan paket kesetaraan di Bandung Indonesia, yang telah menjalankan ujian asesmen nasional berbasis komputer dengan yang diujikan adalah kompetensi literasi dan numerasi berbasis komputer sehingga mengundang mitra untuk membantu membimbing dan memberikan pelatihan terhadap warga belajar untuk mempunyai keterampilan tersebut. Berdasarkan kebutuhan tersebut, tim

pengabdian masyarakat Universitas Bale Bandung dengan sesuai kesepakatan bersama pengelola PKBM Bina Warga Mekarjaya melaksanakan pengabdian tersebut dengan berupa pelatihan literasi dan numerasi terhadap warga belajar di PKBM Bina Warga Mekarjaya menjelang pelaksanaan ujian asesmen nasional berbasis komputer.

Kata Kunci: literasi, numerasi, asesmen nasional.

INTRODUCTION

Competence literacy and numeracy is fundamental competencies applied to public moment this is so you can succeed various aspect life including education. Literacy is ability read and write for adequate communication so that can interpret and understand written text and develops along walk time follow the needs of the era of globalization, leading public for own ability media literacy and digital literacy. Media literacy is ability for access, analyze, evaluate and create media in form, whereas digital literacy is ability for discover, assess, utilize, share and create content with utilise technology information and the internet (Pratiwi *et al.*, 2024).

Ability literacy base only ability reading and writing, ability in understand what to read and use the understanding through ability this can create formulation door gate information that leads the way think new from various sounds, images and symbols (Hughes, 2023). Competence literacy is synonymous with developing reading and writing a number of associated decades with various form competence manufacture semiotic meaning such as images, symbols and sounds as well as experience a shift that leads to form literacy new so that influence policy global education (Lofgren, 2023).

Literacy education own long and significant history as well as there is a number concepts and perspectives For consider the ways in which research has advance discussion contemporary Because take into account paradigm new social, cultural, linguistic, and philosophical . Field education literacy consider connection context local and global (Foley, 2024). Development literacy in Global education focused to student in read in accordance choice, accurate, easy understood, which is then write about something meaningful in a way private, then speak with friend peer about what he reads and writes as well as listen to others who are fluent read with loudly (McKnight, 2019).

Reading program can give rise to growth outside students normal, This in accordance with reading program research has proven help school intermediate first and school on for increase performance read through reading program with category curriculum reading, Computer Assisted Instruction (CAI), teaching

process program , and combined between CAI and the instructional process model (McKnight, 2019). Besides rather than that , literacy is key education is a must developed more from just reading , however can determine who can afford it participate in taking decision , keep going follow development current and not with objective For can endure life (McCray, C & Campbell 2023).

Researcher literacy has start research various outside context school , no only in formal schools . On the other hand , they are has confess that literacy school Keep going own Very powerful function in society (Sternoni & Zhang 2023). In matter this is one of them to education outside school or education equality at level package equivalent school elementary and secondary carried out in Indonesia, which has enforce exam assessment national with competency being tested is literacy and numeracy . Skills literacy and numeracy is results Study measured cognitive abilities in Assessment Minimum Competency (AKM) and is part from National Assessment (McCray, C & Campbell 2023). Capability literacy in a broad sense is involvement student in creativity in a way not limited For communicate with other people and understand the world, so they capable reach objective life they with all effort and knowledge or the potential it has For participate in life society (Murray. J 2021. Meanwhile ability numeracy is ability numeracy that integrates skills quantitative cross discipline science (Numeracy, 2023).

From the explanation above ability literacy and numeracy are very important in life society , for one for current educational institutions this is what has been carry out exam assessment national , so we are a team devotion public with cross discipline knowledge from Bale University Bandung did devotion community in PKBM Community Development Mekarjaya with target inhabitant Study package Equivalent to elementary, middle and high school outer from Collaboration agreement carried out by Universitas Bale Bandung with PKBM Bina Warga Mekarjaya .

IMPLEMENTATION OF COMMUNITY SERVICE

Stages implementation devotion to public This is as following :

1. Training Literacy and Numeracy

Implementation training literacy and numeracy done to inhabitant Study package equivalent to junior high school (Package B) class 8 with amount inhabitant Study as many as 20 people and packages equivalent to high school

(Package C) with amount inhabitant Study as many as 30 people. Place training implemented at PKBM Bina Warga Mekarjaya. As for implementation training literacy and numeracy can be seen in Figure 1.1 and Figure 1.2 below This .



Figure 1. 1 Training Literacy and Numeracy on Packages Middle School Equivalent



Figure 1. 2 Training Literacy and Numeracy on Packages High School Equivalent

Based on image above inhabitant Study seen enthusiastic in carry out training literacy and numeracy this , with preparation approaching implementation assessment held nationally simultaneously .

2. Training Literacy and Numeracy with Based Computer

Training literacy and numeracy with use room laboratory computer at PKBM Bina Warga Mekarjaya was implemented to inhabitant learn PKBM Community Development Mekarjaya can be seen in Figure 2.1 and Figure 2.2.



**Figure 2.1 Training Literacy and Numeracy Based Computer Package
Middle School Equivalent**



**Figure 2.2 Training Literacy and Numeracy Based Computer Package
High school equivalent**

3. Evaluation and Closing

Once done training literacy and numeracy computer -based against inhabitant learn Community Development PKBM Bina Mekarjaya, then done evaluation with do filling out the google form against inhabitant learn, with objective for know results obtained by residents study after given training.

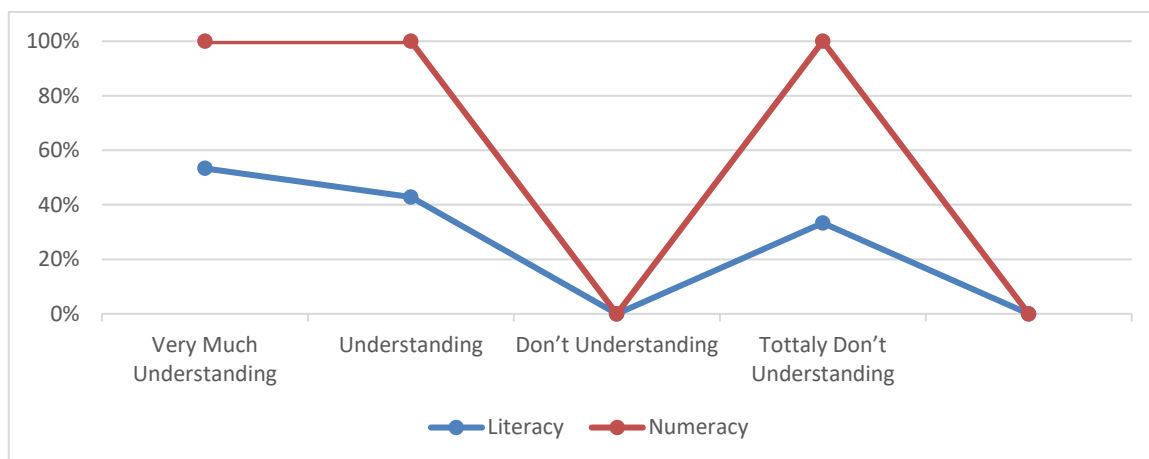


Figure 3. 1 Response Students After Doing Training Numeracy

Based on the literacy and numeracy training above, it can be seen that the students at the PKBM Bina Warga Mekarjaya prefer literacy over numeracy.

DISCUSSION

Literacy is ability necessary basis developed as gate information media literacy and digital literacy in welcome life in the era of globalization. Likewise numeracy is ability calculating and reasoning critical need in develop ability think logical and critical in solve life daily. However after do devotion public still obtained findings that in areas where there is internet not enough stable must do assessment national with semi-online mode so need sufficient equipment and preparation many, different with those who do assessment by online. With so devotion what society needs to do furthermore is how about the experts do research to get the internet in village more strong Again network the internet. With do training literacy and numeracy this computer based can prepare inhabitant Study Community Development PKBM Bina Mekarjaya in prepare self in exam assessment national.

CONCLUSION

After implementation training literacy and numeracy, acquired findings that training like this need carried out in order to be able inhabitant study increase especially from possible results seen from education report as reject measuring evaluation ability inhabitant Study in matter competence literacy and numeracy.

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