Effect of Training Packages Online on Electronic Book for Teacher Under of Secondary Education Service Area 3

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Abstract

The purposes of this research were to study the training packages online on electronic book for teacher under of Secondary Education Service Area 3 and to study the satisfaction of trainees towards the training packages online on electronic book. The samples were 30 teachers and educational personnel in schools under of Secondary Educational Service Area 3 by voluntary selection. The data were analyzed by mean, standard deviation and Dependent t-test.

The research findings were as follows

1. The learning achievement of trainees after training packages online on electronic book was statistically significantly higher than that before training packages online at .05 level (t = -19.10, p = .00)

2. The satisfaction of trainees towards training packages online on electronic book was at a level of satisfied ($\overline{X}$ = 4.10, S.D. = .44)

Introduction

Nowadays, educational organizations concern an urgent development of teacher to have a high quality as a profession; however, there are a lot of problems of this development. One of the main problems is the conditions of teacher training. Teachers go to the high expense of training registration, accommodation, and long-distance transportation that could be their financial burdens and become negative effect on teaching and learning. To solve this problem, information technology for training could be a fast- track part to develop teachers effectively because it has no conditions of time and place to study, but it has flexibility, variety, and spontaneous development for teachers. It also encourages teachers to have a skill of self study and improvement to become a sustainable development. Moreover, information technology for training provides an interactive learning between instructors and trainees, trainees and trainees

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and it can be developed corresponding with the current technology. According to the statement of Office of the National Education Commission (2000), training online is a useful form of using the Internet for learning management because it is used for self study to search the information. This responds to the learner- centered concept which supports a variety of learning at any time with the information technology, not only being taught by an instructor. This kind of media is also used to stimulate learners to study and solve the problem themselves. Rujroad Kaewurai (1997) explained that learners can study when they feel to do without being forced by the timetable or classroom. They can search for and study any information when they need without attending classes; this means, the instructors have a little time to teach in class and spend more time on creating lessons.

Thai educational media have developed continuously along the current technology. This one is very important for a higher progression. Learning system has adopted technological media for a high quality of learning. Electronic book is new to education. It responds to learners' need that contains books in digital form to reduce the conditions of reading ordinary books. The roles of instructors have changed to focus on learning information and using various methods of teaching depending on economic and social conditions. Electronic book becomes an educational innovation that educators and related personnel of learning management are paying attentions to. It covers several books being read with information technology especially computer. In addition, the instructors can revise and update the lessons on electronic book for the short time and have very few burdens of preparing handouts.

According to this information, the researchers become aware of the necessity and importance to support teachers to develop learning media themselves. They have to create lessons on electronic book, work and learn any information they found. Computer connection and tools could be the solutions to the limited expenses and time; this means, teachers could learn the information at any place to develop the educational media for more effective learning.

Purposes of the Study

1. To study the learning achievement of the trainees after training packages online on electronic book.

2. To study the satisfaction of trainees towards training packages online on electronic book.

Research Procedure of the Study

This research was an experimental with one group pretest and posttest design.

Samples

30 teachers and educational personnel in schools under of Secondary Educational Service Area 3 by voluntary selection

Variables

1. Independent variable was the training packages online on electronic book.
2. Dependent variable
   1) The learning achievement after training packages online
   2) The satisfaction towards training packages online

The Research Instruments

1. The training packages online and handbooks including 6 units:
   Unit1: General Information of FlipAlbum
   Unit2: Getting Started – Electronic book
   Unit3: Insert and Delete Page
   Unit4: Insert Sound and Video
   Unit5: Decoration
   Unit6: Dissemination
2. 20 items of 4 multiple choices pretest and posttest of training
3. Evaluation form of 5 rating scales satisfaction

Procedure of Experiment

The researchers experimented with the training packages online as follows:

1. Make a plan before an experiment
   1.1 Prepare the computer laboratory including computers and the Internet connection.
   1.2 Prepare the training packages online and the instruments of data collection.
2. Experiment with the training packages online
   2.1 The trainees studied and practiced from a handbook.

2.2 The trainees did pretest before training.

2.3 The trainees did the training packages online.

2.4 The trainees did posttest after training.

Data Analysis

1. Compare the learning achievement and test the difference with Dependent t-test.

2. Analyze the satisfaction towards the training packages online with mean and standard deviation. The researchers identified the interpretation of five rating scales as follows:

$\overline{X}$ 1.00 – 1.49 refers to Very Dissatisfied.

$\overline{X}$ 1.50 – 2.49 refers to Dissatisfied

$\overline{X}$ 2.50 – 3.49 refers to Neutral

$\overline{X}$ 3.50 – 4.49 refers to Satisfied

$\overline{X}$ 4.50 – 5.00 refers to Very Satisfied

Research Results

1. The results of comparing the learning achievement mean before and after training

Table 1: The Learning Achievement Scores from Pretest and Posttest

Evaluation	n	$\overline{X}$	S.D.	t	p
Pretest	30	11.20	1.94	-19.10	.00
Posttest	30	17.30	1.39		

$p < .05$

According to Table 1, the results of comparing the learning achievement mean before and after training showed that before training, 30 samples got 11.20 on learning achievement mean and 1.94 on standard deviation. After training, they got 17.30 on learning achievement mean and 1.39 on standard deviation. Therefore, the results of comparing the learning achievement mean before and after training analyzed by Dependent t-test showed that the learning achievement mean after training was significantly higher than before training at .05 significant level ($t = -19.10$, $p = .00$)

2. The satisfaction scores of the trainees towards the training packages online

Table 2: The satisfaction scores of the trainees

Topics of Evaluation	$\overline{X}$	S.D.	Meaning
Content	4.11	0.41	Satisfied
Technique and Design	4.04	0.38	Satisfied
Interaction	4.07	0.45	Satisfied
Benefits from Training Packages Online	4.17	0.57	Satisfied
Average	**4.10**	**0.44**	**Satisfied**

According to Table 2, the overall of the satisfaction evaluation towards the training packages online was at Satisfied ($\overline{X}$ = 4.10, S.D. = .44). When analyzing in each item, the mean of benefits from training packages online was the highest ($\overline{X}$ = 4.17, S.D. = .57) along with the content ($\overline{X}$ = 4.11, S.D.= .41) and Interaction ($\overline{X}$ = 4.07, S.D.= .45).

Table 3: Mean and standard deviation of the satisfaction scores towards the training packages online about content

Topics of Evaluation	$\overline{X}$	S.D.	Meaning
Content			
1. Interesting motivation	3.97	0.32	Satisfied
2. Content responding to the objectives	4.20	0.41	Satisfied
3. Appropriate difficulty for trainees	4.00	0.26	Satisfied
4. Clear meaning of language usage	4.23	0.43	Satisfied
5. Good examples of each unit	4.03	0.32	Satisfied
6. Content completion of each unit	4.23	0.57	Satisfied
Average	**4.11**	**0.41**	**Satisfied**

According to Table 3, the overall of the satisfaction evaluation towards the training packages online about content was at Satisfied ($\overline{X}$ = 4.11, S.D. = .41). When analyzing in each item, the mean of clear meaning of language usage ($\overline{X}$ = 4.23, S.D. = .43) and content completion of each unit ($\overline{X}$ = 4.23, S.D. = .57) were the highest along with content responding to the objectives ($\overline{X}$ = 4.20, S.D.= .41).

Table 4: Mean and standard deviation of the satisfaction scores towards the training packages online about technique and design

Topics of Evaluation	$\overline{X}$	S.D.	Meaning
Technique and Design			
1. Good design and simplified menu	4.07	0.45	Satisfied
2. Same design of screen and menu	4.07	0.37	Satisfied
3. Beautiful design of screen and menu	4.00	0.26	Satisfied
4. Illustrative pictures responding to content	3.87	0.43	Satisfied
5. Usefulness of pictures for a comprehension of showing steps and examples	4.13	0.43	Satisfied
6. Clear and easy audio description	4.07	0.25	Satisfied
7. Correct language usage of audio description	4.10	0.40	Satisfied
Average	**4.04**	**0.38**	**Satisfied**

According to table 4, the overall of the satisfaction evaluation towards the training packages online about technique and design was at Satisfied ($\overline{X}$ = 4.04, S.D. = .38). When analyzing in each item, the mean of usefulness of pictures for a comprehension of showing steps and examples ($\overline{X}$ = 4.13, S.D. = .43) was the highest along with correct language usage of audio description ($\overline{X}$ = 4.10, S.D.= .40), good design and simplified menu ($\overline{X}$ = 4.07,
S.D.= .45), same design of screen and menu ($\overline{X}$ = 4.07, S.D.= .37), and clear and easy audio description ($\overline{X}$ = 4.07, S.D.= .25).

Table 5: Mean and standard deviation of the satisfaction scores towards the training packages online about interaction

Topics of Evaluation	$\overline{X}$	S.D.	Meaning
Interaction			
1. Easy controlling lessons	3.90	0.48	Satisfied
2. Same design of interacting with lessons	4.20	0.41	Satisfied
3. Appropriate connection between content	4.17	0.59	Satisfied
4. Appropriate feedback and reinforcement	4.03	0.32	Satisfied
5. Opportunities of interaction between learners and lessons	4.07	0.37	Satisfied
Average	**4.07**	**0.45**	**Satisfied**

According to table 5, the overall of the satisfaction evaluation towards the training packages online about interaction was at Satisfied ($\overline{X}$ = 4.07, S.D. = .45). When analyzing in each item, the mean of same design of interacting with lessons ($\overline{X}$ = 4.20, S.D. = .41) was the highest along with appropriate connection between content ($\overline{X}$ = 4.17, S.D.= .59), and opportunities of interaction between learners and lessons ($\overline{X}$ = 4.07, S.D.= .37).

Table 6: Mean and standard deviation of the satisfaction scores towards the training packages online about benefits from training packages online

Topics of Evaluation	$\overline{X}$	S.D.	Meaning
Benefits from Training Packages Online			
1. Know how to produce e-book	4.10	0.61	Satisfied
2. Understand and memorize the information better	4.37	0.49	Satisfied
3. Apply knowledge to real use	4.03	0.56	Satisfied
Average	**4.17**	**0.57**	**Satisfied**

According to table 6, the overall of the satisfaction evaluation towards the training packages online about benefits from training packages online was at Satisfied ($\overline{X}$ = 4.17, S.D. = .57). When analyzing in each item, the mean of understand and memorize the information better ($\overline{X}$ = 4.37, S.D. = .49) was the highest along with know how to produce e-book ($\overline{X}$ = 4.10, S.D.= .61), and apply knowledge to real use ($\overline{X}$ = 4.03, S.D.= .56).

Conclusion

The training packages online have an organized plan of producing media with the experts' advice on training and information. The trainees' needs have to be considered to identify the objectives of training, so the training packages online will be produced and respond to their needs. The content in the training packages online should be divided into small units and run in order or sequence of usage for trainees. Moreover, they should provide some tests or tasks that the trainees have an opportunity to do themselves.

These characteristics will enhance the training packages online to be more effective. For a voluntary selection, the trainees will be active to learn what they need and then achieve the objectives of training. In addition, preparation of trainees is very important. If the trainees have no skill of using computer, there will be a problem of learning through the computer connection. Consequently, there is a preparation of basic computer and Internet for the trainees.

Reference

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