

The Effectiveness of Modern Hair Bun Styling Handout to Improve the Learning Outcome of Students in Hair Beauty Department of a Vocational High School

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Abstract: The handout gives students guidance on how to learn something. However, SMK Negeri 1 Salatiga, particularly from the Department of Beauty, does not provide the handout for the students. The researchers arranged the handout for modern hair bun styling to ease the students for independent learning. This research aims to (1) validate the handout for modern hair bun styling for Beauty Department students of a Vocational High School and (2) unveil the effectiveness of the handout in enhancing students' learning outcome. This research employs a one-group pretest-posttest design. The researchers gathered the data using test, questionnaires, and documentation. This research focuses on the population of XII grade students of Hair Beauty Department in SMK Negeri 1 Salatiga, in which there are 27 students. The research utilizes a total sampling method. The data of the research were analysed using descriptive quantitative percentage. The result of the research showed that the handout for modern hair bun styling is in a good category with a rate of 90.62%. The number came from the validation of three experts and the 45% score improvement from pre-test to post-test.

1 INTRODUCTION

The current learning system in the world should not only demand the teacher to be skilful and creative in preparing the class, but the students should also be able to learn independently and proactively. In the era of 4.0 industry, a school graduate should have soft competitive skills (Sudana, Apriyanidan Nurmasitah, 2019; Sudana, Apriyani, 2018). Students can develop their skills with the help of the teaching and learning process, which mainly focuses on building students' learning initiatives and independence.

Independent learning does not make educators take their hands off the students. Instead, educators should be creative and innovative to teach students. To achieve that, the headmaster of a school should control his or her teachers to be an innovative teacher (Sudana and Apriyani, 2018; Sudana, Buang, and Atika, 2018). The idea is in line with the concept of providing students with a handout which can assist them in learning material independently.

A student handout is useful learning material. Through a handout, students can learn without tutors' assistance. The use of handout can help the students improve their learning acceptance.

Darmayanti (2005) says that independent learning is a process where a person takes the initiative with or without other people's help. In independent learning, learners diagnose their learning requirements, formulate their goals, identify their learning sources, adapt learning strategies, and evaluate their learning outcome. Chamot (2000) mentions that self-regulated learning is a situation where students control their learning process through proper application and learning strategies. The understanding of the procedure and tasks motivates the students to make a decision and keep learning.

In this research, the researchers discuss learning handout for the modern hair bun styling. The handout is used by the students to assist their learning process in the classroom or at home. Using the handout makes the students do not have to take notes and focus on the learning process. In the handout, many exercises are available to help students memorize the information in the classroom. Hence, the activities can make the students measure their capacity and comprehend the desired skills.

This research aims to (1) validate the handout of modern hair bun styling to improve the learning outcome of Vocational High School

students in a Hair Beauty department and (2) unveil the effectiveness of the handout in enhancing the students' learning outcome.

2 METHODS

This research employs a quantitative approach. This research uses a pre-experimental design. Furthermore, the research utilizes one-group pretest-posttest design. The researchers administered pre-test before the treatment and post-test after the treatment to discover the improvement between the actions.

The population in this research is the 27 XII grade students of SMK Negeri 1 Salatiga who is in the Hair Beauty department. The sampling method of this research is saturated sampling. The independent variable (X) in this research is the effectiveness of the modern hair bun styling handout. The dependent variable (Y) is the learning outcome of the XII grade hair beauty department students of SMK Negeri 1 Salatiga. The research obtained the data from instrumented tests, questionnaires, and documentation.

The research followed three steps of procedures, which are preparation, experimentation, and data management. In the analysis, the researchers measure the normality and improvement from the pre-test to the post-test score.

3 RESULTS AND DISCUSSION

3.1 RESULTS

3.1.1 The Validity of Modern Hair Bun Styling for Students of Hair Beauty Department

The validator for the first material of the handout is Yustina Denik, the teacher of beauty department in the Traditional and Creative Bun unit in SMK Negeri 1 Salatiga, while the validator for the second material is Maria Krisnawati, the lecturer of beauty education in Universitas Negeri Semarang. The validator of the media is Haryono, the lecturer from the Educational Technology department in Universitas Negeri Semarang. The considerations for handout validation are the cover, content, and the size of the handout.

3.1.1.1 The First Validation from the Experts

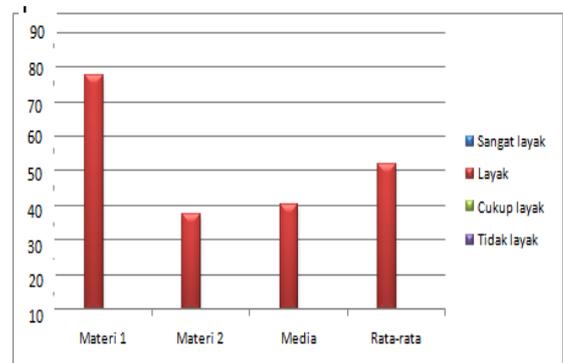


Figure 1 The recapitulation of first expert validation

Source: Research Data, 2017

NB:

Sangat layak: very proper; layak: proper; cukup layak: moderately proper; tidak layak: poor Materi: materials; rata-rata: average.

The first validation of the handout got an average score of 72.34% and categorized as proper. In details, the scoring from the expert of material 1 is 69.53%, while expert 2 is 77.5%. Later, the average score is 70%.

3.1.1.2 The Second Validation from the Experts

After the revision from part 1, the researchers proposed the revised handout to the experts. Figure 2 shows the result of the second expert validation.

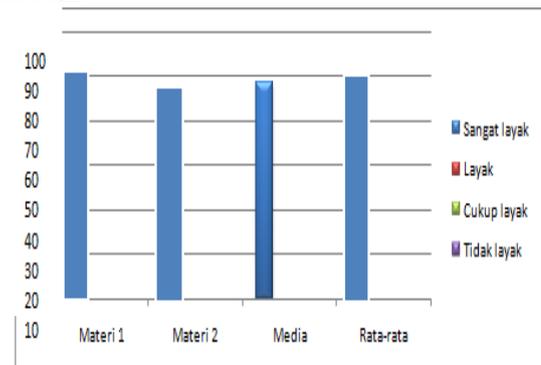


Figure 2 The recapitulation of second expert validation

Source: Research Data, 2017

The second validation involved the expert of content 1, expert of content 2, and the expert of media. The result from the validation showed an average score of 90.62%, which is categorized as valid.

3.1.2 The Effectiveness of Modern Hair Bun Handout to Improve the Learning Outcome of Students in SMK Negeri 1 Salatiga

3.1.2.1 The Usability Test of the Modern Hair Bun Styling Handout

The analysis of the data in the cognitive learning skills used the average score as the determining point. However, there is a normality test before the action to know whether the data is normally distributed or not.

Table 1 The recapitulation of students' average cognitive score

Scoring	Minimum Score	Maximum Score
Pre-Test	56.67	83.33
Post-Test	76.67	93.33

Sources: Researchers data, 2017

From the cognitive aspect, the handout helped the students to gain their test result from the pre-test of 70 to the post-test of 85 with an increasing rate of 45%. The normality test showed that the result is in normal level with the pre-test significance score of $0.200 > 0.05$ and post-test of $0.200 > 0.005$. From the mean, it is inferred that the post-test is higher than the pre-test score. Hence, the handout for modern hair bun styling can improve students' learning outcome.

3.1.2.2 Normality Test

The normality test was administered to show whether the data come from a normal population or not. The researcher did the test using SPSS version 21.0. The result of the normality tests showed that the pre-test and post-test are in a normal distribution with the significance of > 0.05 . The significance for the pre-test is $0.200 > 0.05$, and the significance for the post-test is $0.200 > 0.05$. Therefore, the data of this research is normally distributed.

3.1.2.3 The Findings on Students' Affective Aspects

This research obtained the data of students' perception towards the handout of modern hair bun styling. The data is displayed in Figure 3 as follows.

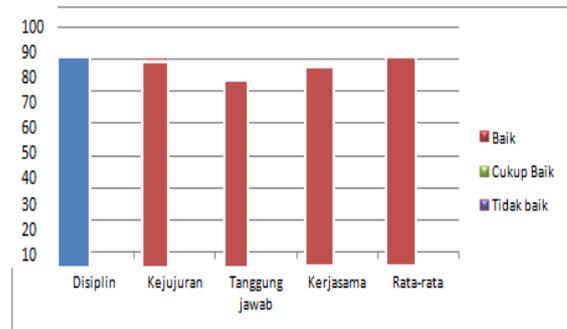


Figure 3. The findings on students' affective aspects in the learning process

NB:

Baik: good; cukup baik: moderate; tidak baik: poor
 Disiplin: discipline; kejujuran: honesty; tanggungjawab: responsibility; kerjasama: cooperative; rata-rata: average/mean.

In Figure 3, the score for the discipline is 89.1 in the criteria of very good. Meanwhile, the other categories are honesty in the average of 81.3 (good), responsibility in 78.9 (good), and cooperation in 80.5 (good).

3.1.2.4 The Findings on Students' Psychomotor Aspects

Figure 4 showed the psychomotor aspects and the average score for students' practicum during the treatment with modern hair bun styling handout.

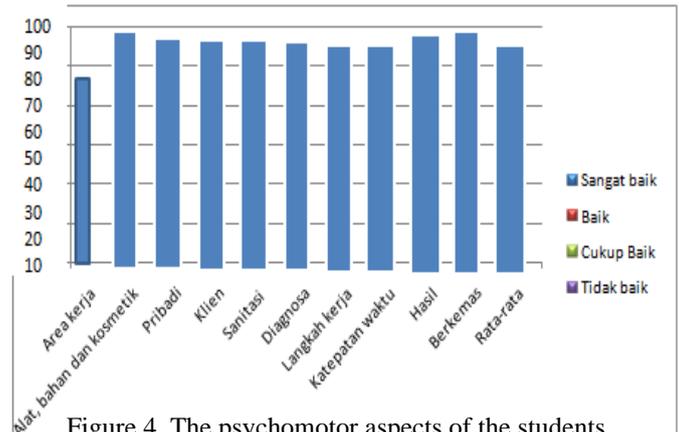


Figure 4. The psychomotor aspects of the students

NB:

Sangat baik: very good; baik: good; cukup baik: moderate; tidak baik: poor

Area kerja: working area; alat, bahan, dan kosmetik: tools, utilities, and cosmetics; pribadi: personal preparation; klien: client's preparation; sanitasi: sanitation or hygiene; diagnosa: diagnose (hair consultation); langkah kerja: working sequences; ketepatan waktu:

punctuality; hasil: results; berkemas: packing; rata-rata: average/mean.

Figure 4 showed that the students' average psychomotor score after the treatment is 94.39, or in the good criteria. In each aspect, the students' psychomotor scores are 97.61 in the working area; 95.23 in terms of tools, utilities, and cosmetics; 94.04 in personal and clients' preparation; 92.85 in sanitation; 92.85 in hair consultation; 91.67 in terms of working sequences; 91.67 in punctuality; 96.42 in results; and 97.61 in terms of packing.

3.1.2.5 Analysis of the Students

From Figure 5 below, 139 students responded agree to the use of the handout. Meanwhile, the other two disagreed. The data show that the percentage of the final score for the modern hair bun styling handout is 81.25 with the criteria of very proper. Hence, it can be concluded that the students are more motivated to learn after the use of handout.

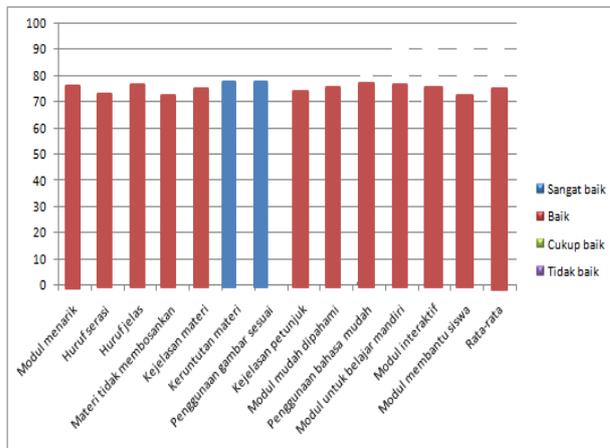


Figure 5. Students' responses

NB:

Modul menarik: the module is attractive; hurufserasi: the font is appropriate; huruf jelas: the font is clear; materi tidak membosankan: the materials are not boring; kejelasan materi: the content is clear; keruntutan materi: the material is ordered; penggunaan gambar sesuai: the picture is clear and appropriate; kejelasan petunjuk: the direction is clear; modul mudah dipahami: the materials are understandable; penggunaan bahasa mudah: the language style is appropriate; modul untuk belajar mandiri: the

handout supports independent learning; modulinteraktif: the handout is interactive; modulmembantusiswa: the handout is helpful for students; rata-rata: average/mean.

3.2 DISCUSSION

3.2.1 The Validity of Modern Hair Bun Styling Handout for Students in the Hair Beauty Department

In this research, there are three steps of expert validations for the proposed handout. The validators are Haryono as the expert of media, Maria Krisnawati as the expert of content 1, and Yustina Denik R as the expert of content 2. The result showed that the media is proper or valid enough to be used by the students as a learning medium.

Meanwhile, the expert of materials has verdict the handout as valid although the content can be developed and extended. According to Surahman (in Prastowo, 2011:113), a handout is the smallest learning unit which can be learned in self-instructional mode. Therefore, it can be concluded that the handout is proper enough as the material and medium for students' learning process.

3.2.2 The Effectiveness of Modern Hair Bun Styling Handout for the Students of SMK Negeri 1 Salatiga

The researcher conducted a usability test to know the effectiveness of the validated handout in improving students' learning outcome. The measured aspects are the cognitive, affective, and psychomotor aspects of the students.

3.2.2.1 The Improvement of Students' Cognitive Aspects

This research was conducted in SMK Negeri 1 Salatiga, particularly in the XII grade of the Hair Beauty department. There are 27 students in the class. The usability test was used to design the experiment in a written test.

In the first meeting, the students were given a pre-test in regards to modern hair bun styling. The action was done to measure the students' knowledge about modern hair bun styling. The student got the average score of below 75 or under the passing grade.

In the next meeting, the students were given the treatment of using a handout. After the treatment, the students were given a post-test to

know their learning outcome. The result showed that they got the average score of > 75 or over the passing grade.

3.2.2.2 The Improvement of Students' Affective Aspects

The students experienced improvement in affective aspects. In this case, they got a very good score for discipline, honesty, responsibility, and cooperation. The learning with the handout is instrumental. The students can be responsible for their learning activity. The teaching with a handout makes the students appreciate individual differences. Therefore, they learn based on their ability which eventually make the learning process effective and efficient. According to Tjipto (1991:72), the use of handout can build very good behaviour to the students. It is reflected in this research, where the students acted very well academically or behaviourally.

3.2.2.3 The Improvement of Students' Psychomotor Aspects

The result of the research showed that the 27 students had good scores in all psychomotor aspects after the provision of modern hair bun styling handout. In details, the students got good in terms of working area's preparation; tools, utility, and cosmetics preparation; hair consultation diagnose; working sequences; punctuality; and packing. Meanwhile, they also got a very good score in terms of personal and clients' preparation as well as the hygiene maintenance of the working area. Thereby, the handout can improve students' psychomotor performance which also affects their learning outcome.

The improvement in the post-test is inseparable from the handout since students do not have to take notes from the teacher's explanation. The explanation is already mentioned in the handout. From the improvement, it is expected that the handout does not only affect students' working performance and behaviour, but also enhance the learning quality in SMK Negeri 1 Salatiga, especially the Hair Beauty department.

3.2.2.4 Students' Responses

The responses of the students showed that they considered the handout as very proper in the learning process. They also responded that the handout could help them advance the learning materials. The result is in line with Purwanto

(2009:54) that learning outcome comes from the match between the learning process and learning objective. However, there are some things which the handout lacks, such as the scope of the materials, the pictures in the handout, and the production of the handout in better paper quality.

4 CONCLUSION

From the analysis, there are two points of conclusion, which are as follows.

1. The validators of material 1 and 2 considered the handout as a valid medium for the learning process of modern hair bun styling. Their scores were in the good category.
2. The handout can improve students' learning outcome, especially in terms of cognitive, affective, and psychomotor aspects. The handout also got very good responses from the students who eventually proves that the handout is useful to improve students' learning outcome.

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