DEVELOPMENT OF COMPUTERIZED BASED TEACHING MEDIA BY USING MACROMEDIA FLASH APPLICATION IN STARTER AND FILLING REPARATION SYSTEM SUBJECT OF SMK TAMANSISWA YOGYAKARTA

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ABSTRACT

This study aims at developing a teaching media which is able to give positive contribution to the theoretical study of starter and filling reparation system subject and understanding the feasibility of starter system as the teaching media in light vehicle engineering department.

The experiment was conducted at SMK Tamansiswa Yogyakarta. This research is the development of instructional media starter system. Stages in this study consisted of : (1) needs analysis; (2) Planning; (3) Product development; (4) test the validity of expert; (5) product revision; (6) limited test (7) product revision (8) small group of test (9) product revision (10) large group of test (11) final product. The validation process was conducted by a person matter experts and a media experts. The field testing was done with a limited test of 2 people teachers, test small group with 10 students and to test large groups conducted with 30 students. Formative evaluation data collection was done by using the assessment form toaspects of content, usefulness aspect, the aspect of screen design and operation aspects of the program.

Generally, the results of the experiment belong to excellent criteria as follows; (a) the quality of the material validated by an expert of the subject belongs to an excellent criterion by mean of 3,88; (b) the quality of media validated by an expert of media belongs to an excellent criterion by mean of 3,75; (c) the result of limited experiment belongs to an excellent criterion by mean of 3,48; (d) the result of the small group experiment belongs to an excellent criterion by mean of 3, 57; (e) the result of the large group experiment belongs to an excellent criterion by mean of 3,45. They are as follows: (a) the content of the material aspect shows a scoring mean of 3,44; (b) the usefulness aspect shows a scoring mean of 3,48; (c) the screen design aspect shows a scoring mean of 3,57, (d) the program operation aspect shows a scoring mean of 3,43. From those results, it can be concluded that the created teaching media are very feasible to be used in teaching.

Key words: development, teaching media, machine management system.