

MEDIA DEVELOPMENT IN LEARNING THEORY OF CONVENTIONAL
LATHE MACHINE WITH MICROSOFT OFFICE POWERPOINT SOFTWARE
IN VOCATIONAL SCHOOL 2 KLATEN

ABSTRACT

By:
ARIS AGUS SANTOSO
NIM. 08503242013

This research aims at, (1) utilizing Microsoft Office Powerpoint software for teaching methods in the theory of conventional lathe machine class XI machining engineering competence, (2) describing how the feasibility of instructional media software with Microsoft Office Powerpoint on a theory of conventional lathe machine class XI, (3) examining the effectiveness of instructional media software with Microsoft Office Powerpoint on a theory of conventional lathe machine class XI.

This research can be categorized as Research and Development to produce the instructional media and to test the effectiveness of the product. Design of learning media development through several stages, namely: (1) software selection, (2) development of display design media, (3) implementation of media design, and (4) assembly. From the stages of design development conducted media, display media obtained sequence starting from the intro page, main menu page, instructions page, the page content, page evaluation and developer profiles page. Each page was linked using the buttons interface. Media learning the theory of conventional lathe machines was packed in a CD of learning. As a test of the feasibility of the media, the instrument used for data collection are questionnaires, while the techniques used to analyze the data was the descriptive statistics revealed in the distribution of the five scale scores (Likert scale) to the category rating scale that has been determined. Testing the effectiveness of instructional media products was using the pre-test & post-test in the form of a written multiple choice test questions.

Utilization of Microsoft Office Powerpoint software to be used as a medium worthy of learning the theory of conventional lathes machine. It is based on the results of expert validation and test results of small groups and large groups. The results of the validation matter experts received a mean score of 3.58 on a scale of five scores (1sampai to 5) included in the criteria of "Good". The results of the validation media experts had a mean score of 4.07 on a scale of five scores included in the criteria of "Good". While the results of testing a small group got an average score of 3.92 on a scale of five scores included in the criteria of "Good", and the trial group had a mean score of 4.21 on a scale of five scores included in the criteria for "Very Good". The results of testing the effectiveness of instructional media products indicate the average value of the pre-test of 50.17 and then at post-test average value rose to 69, resulting in an increase in value by an average of 37.53 percent.

Key words: development, instructional media, Microsoft Office PowerPoint software, the theory of conventional lathes machine