

TRAINING MODULE OF HYDRAULIC DEVELOPMENT COURSE IN SMK N 4 YOGYAKARTA

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ABSTRACT

The purpose of this research is to develop appropriate modules to support the learning of hydraulic and hydraulic determine the feasibility of learning module in SMK N 3 Yogyakarta.

The method used is the development of research methods. This research was conducted on students' grade 3 Department of Mechanical Machining SMK N 3 Yogyakarta as many as 30 students. Data was collected using instruments that were analyzed by descriptive quantitative to determine the feasibility of learning module hydraulic.

The results of this study is the medium of learning in the form of modules, while the design of the module that was developed in the form of printed books to the size A4, font Arial, font size 12, spacing 1 ½, the margin limit of 3 cm, the limit of the left 3 cm, the lower limit of 2 cm and the boundary right 2 cm. The module content consists of the module cover, preface, table of contents, list of pictures, list table, syllabus, and introduction, chapter I-V which includes; sub subjects, summaries, exercises, answer key and the last closing. Stages of design development of this module include (1) identification of objectives, (2) needs analysis, (3) data collection, (4) module design, (5) testing expert, (6) revision of I, (7) limited test, (8) revision II, (9) field tests, (10) the final revision, (11) improvements. Test the feasibility of the hydraulic module that was developed by rating the percentage of material experts obtained 79.16%, from media experts to obtain the percentage of 81%. Limited test includes assessment of the performance of 4 students with the average value of 6 and from field tests included assessment of the performance of 30 students with the average value of 7.88. From the test results can be concluded that the module has been developed that used to support the learning of pneumatic-hydraulic.

Keywords: Development, modules, learning, hydraulic