

ABSTRACT

Education Vocational High School is the level of education that promotes the development of students' skills. The role of teaching aids in accordance with the vocational competence standards are needed to develop the skills of their students. PLC trainer is a teaching tool that can be used by vocational students, especially electronics engineering, industrial automation engineering and technical control. In some vocational school located in the City / Regency Bandung learning is done without the use of a trainer so that learning is less effective and is also difficult to understand the process of programming is made.

In the study of making this learning module PLC trainer used generik product design method Ulrich-Eppinger. There are 6 phases: (1) planning, (2) development of concepts, (3) the design of the system level, (4) testing and repairs, (5) product launch. The study was conducted at the department of industrial automation SMK Negeri 4 Bandung, engineering controls SMK 1 Cimahi and electronics industries SMK Negeri 1 Katapang. To determine the feasibility of trainers and job sheet that has been created, conducted trials of products to students directly and compare the parameters of success that has been made with the test results, as well as the students' response to these tools.

Results of the generik product design method is learning aids PLC trainer with the design and components obtained through the processing of data and in accordance with the standards of vocational competence.

Keywords: Product Development , Ulrich - Eppinger , PLC Trainer