

DEVELOPMENT OF SMART BUILDING TRAINING KITS FOR PRACTICAL LEARNING IN VOCATIONAL HIGH SCHOOL

by Sukir, Alias Bin Masek, Moh. Khairudin, Rustam Asnawi, Sigit Yatmono.

ABSTRACT

This research aimed at: (1) developing smart building training kits; (2) obtaining good performance of the developed product; and (3) measuring the feasibility level of the developed product for practical learning among VHS students on Electrical Installation Engineering Expertise. This study belongs to research and development based on the ADDIE model from Branch. The analysis will be carried out according to Analyze, Design, Develop, Implement, and Evaluate stages. The data collection techniques were done through observation, questionnaires and interviews. The research instruments include observation sheets, questionnaires, interview guidelines, and multi meters. Data were analyzed descriptively. The results of the study show: (1). A smart building trainer kit has been produced for practical learning in Vocational High Schools on Electrical Power Installation Engineering Skills Competence; (2) the smart building trainer kit has good performance, which is shown by all test items (100%) can work according to the planned function; and (3) the smart building trainer kit is very feasible to use in practical learning in Vocational High Schools on Electrical Power Installation Engineering Expertise Competencies, which is indicated by the validation of material experts as a whole giving a score of 94.02 %, overall media ex

Kata Kunci: *smart building, training kits, practical learning.*