INCREASING TEACHER PROFESSIONALISM THROUGH ELECTRICAL INSTALLATION PLANNING TRAINING USING ECODIAL SOFTWARE IN VOCATIONAL SCHOOLS

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ABSTRACT

Learning no longer makes teachers the source of all knowledge, but students are required to actively play a role in every lesson (Student Center). The teacher's role as a facilitator is tasked with preparing the right and best learning environment so that it can improve the quality of learning and provide students with various choices of learning experiences. An interesting and innovative learning approach is needed to make learning more meaningful and effective. Most of the subject matter in vocational schools contains elements of electrical installations, both 1 phase and 3 phase. There are several subjects that students like a lot because they are easy to understand, but there are also some subjects that students are less interested in because they require mathematical understanding related to electrical analysis, especially in analyzing current values when a network experiences interference or when determining the specifications of the components needed. in installing an electrical installation. Students' weaknesses in learning, as described, should not be placed entirely on the students and should not be blamed on the teacher in delivering learning, but efforts are needed to find the nodes that become obstacles for the students. One alternative that can be proposed to overcome students' obstacles in improving their ability to analyze electrical circuits is to utilize computer application programs related to electrical science, such as Ecodial. Based on input from participants, the implementation of Increasing Teacher Professionalism through Electrical Installation Planning Training Using Ecodial Software in Vocational Schools received a score range of 82.81 – 96.05 or in the very good category.

Kata Kunci: *training, electricity, ecodial, electrical installation*