ABSTRACT

IMPROVEMENT IN STUDENT LEARNING OUTCOMES OF MEASURING INSTRUMENTS THROUGH DEMONSTRATION METHODS IN GRADE 10 OF LIGHT VEHICLE ENGINEERING OF PUBLIC VOCATIONAL HIGH SCHOOL (SMKN) 1 SUKADANA LAMPUNG TIMUR

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This study aimed to improve learning by analyzing and finding: 1) learning implementation plan (RPP); 2) implementation of learning; 3) assessment; 4) and improvement in productive/vocational learning outcomes of light vehicle engineering.

The approach of this study was a class action in three cycles in class 10 TKR1 and TKR2 SMKN 1 Sukadana, Lampung Timur. In cycle 1, each group was given worksheets and observed demonstrations, and students practiced all mechanical measuring instruments. In cycle 2, each group took turns, was given worksheets and more intensive, and the number of electrical measuring instruments and measured component variations were added. In cycle 3, each group was given worksheets, and pneumatic measuring instruments that were more precise and had achieved success indicators. Data were collected through observation, questionnaires, tests, documentation, and the collected data were analyzed descriptively.

Conclusions of this study are: (1) learning implementation plan was designed using demonstration with preparation stage syntax including formulating objectives to be achieved, preparation of demonstration steps, trials, and implementation stages including opening step, implementation, end of the demonstration, (2) students’ activities in learning reached 87.5%, (3) assessment was done using the essay with validity (0.80), reliability (0.85), level of difficulty (0.70), and discrimination power (0.57), (4) learning outcomes showed the following completeness: cycle 1 (21 students, or 65.63%), cycle 2 (27 students, or 84.63%), cycle 3 (27 students, or 84.38%).

Keywords: demonstration method, learning outcomes, measuring instruments