

PIM FOR WORKSHOP EMPOWERMENT TO IMPROVE THE QUALITY OF LEARNING AT MAARIF 1 WATES VOCATIONAL SCHOOL

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ABSTRACT

Human resources in the industrial era 4.0 are required to master knowledge and skills that can keep up with developing technology. Industrial development in the industrial era 4.0 has penetrated all industrial sectors, including the automotive industry. One of the most advanced technological developments in the world of the automotive industry is the emergence of electric cars. The emergence of electric cars is a challenge in itself for human resource printing schools, especially in the automotive sector. Schools are required to be able to produce reliable and competent human resources in mastering the electrical system in cars. Maarif 1 Wates School is one of the schools that prints human resources in the automotive field which is located at Jl. Puntodewo, RT.38/RW.04, Wates, Gadingan, Wates, Kulon Progo Regency, Special Region of Yogyakarta. Ma'arif 1 Wates Vocational School is one of the Centers of Excellence schools, so the quality of learning is highly prioritized at this school, so that graduates have reliable competencies according to their fields. However, the learning process, especially in practical activities, has its own constraints, especially in the competence of the Automotive Light Vehicle Engineering (TKRO). Especially when practicing about the electrical system in cars, so teachers and students need learning media that can support these learning activities. Simulator is one of the learning media that can be used to make it easier to provide material and practice carried out by students. The PkM activity carried out is to develop a starter motor simulator which is used to help make it easier for students to capture material about how the system works, system assembly, and checking the starter motor system. In addition, the service also develops K3 facilities so that teachers and students are familiar with the K3 culture. Based on the results of the user response questionnaire that has been given, the user is satisfied with the starter motor simulator and the K3 facilities developed. In addition, during the simulator training, the participants were very satisfied with the training activities. There were even some participants who wanted to hold the next activity. This can be a consideration for the implementation of future PkM activities.

Kata Kunci: *Occupational health and safety , Posters, Simulators, Workshops, Automotive*