

ABSTRACT

PO Rajawali Project is a company that provides heavy equipment rental services. Kobelco SK200 Excavator is the machine with the highest frequency of leasing by customers on the PO Rajawali Project. In the real conditions, the engine maintenance process at the PO Rajawali Project, not all employees have expertise in the engine maintenance process. This causes delays in the process of engine maintenance, because they have to wait for other employees who understand about the preventive maintenance process. It takes a media to support the learning process through knowledge sharing between employees, the media that can help in the process of sharing knowledge is e-Learning. This study aims to the design of e-Learning content based on the best practices of Kobelco SK200 preventive excavator maintenance activities. This research used the SECI method (Socialization, Externalization, Combination, and Internalization) to produce best practices, by collecting knowledge and experience gained from senior mechanics and senior assistants.

From the results of the exploration obtained by KOBELCO SK200 preventive excavator maintenance activities. Brainstorming was done to choose the best practices from the two speakers. The design results are best practices used as the basis for e-Learning development. The ADDIE method is used to create e-Learning applications. From the results of the evaluation obtained from mechanical knowledge increased after the e-Learning in terms of the quiz value which increased from 60 to 90. For further research can be done on other machines.

Keywords: Preventive Maintenance, ADDIE, SECI, e-Learning