

ABSTRACT

In a manufacturing company, machine is the heart of the production process, when there are machine down, then the production process can be stopped completely. It's happen in the PT Indonesian Aerospace also, the aircraft industry is doing with the 1035 engine production process. One of the company's existing is Toshiba 100W BMC used to form aircraft parts. These machines require maintenance, both preventive maintenance and corrective maintenance. Maintenance employees totaled 37 employees and for the next 5 years, approximately half of the amount the employee would have retired. This became a concern for the company, because the knowledge possessed by maintenance employees of the company will be lost when employees retire. Therefore, it is necessary to keep the knowledge of employees in an e-learning media.

E-learning will be design using Unified Modeling Language (UML) and iterative development methods. This e-learning application will be maintenance data storage media, so theb knowledge would be an asset to the company. The application is web based and designed using open source software Moodle.

The result is an e-learning application maintenance that can help employees to access knowledge anywhere and anytime, and be able to guide in carrying out maintenance activities. This e-learning application can store knowledge maintenance companies, so that the knowledge will not be lost of the company. This application can also be updated at any time by the company. Subsequent resumption should be examined for 4000 hours of preventive maintenance activities and develop e-learning applications maintenance using incremental iterative method.

Keywords: Toshiba BMC 100W, PT Indonesian Aerospace, Iterative, Maintenance, UML, Moodle