

## ABSTRACT

*Toshiba BMC-100R with CNC Milling type that used by PT Dirgantara Indonesia for the production of aircraft parts, has a vital role as one of the machine with the key facility category, thus requiring intensive preventive maintenance to prevent damage. The implementation at PT Dirgantara Indonesia, preventive maintenance activities are still carried out based on the knowledge possessed by each operator and the absence of standard guidelines agreed upon by all operators as a reference in the implementation of maintenance activities. Based on the issues and considerations of needs to improve the skill of the operator in the use of information technology we need a form of e-learning media that can assist in the implementation of maintenance activities and can support the learning process by means of knowledge sharing that occurs when there is regeneration of employees, given that the number of operators maintenance that will be retired and in need of replacement.*

*It's necessary to implementing knowledge conversion in the making of these e-Learning, which the purpose is to convert tacit knowledge possessed by operators into explicit knowledge that can be used to develop the content of e-Learning storyboards. Knowledge conversion is done by using SECI method which consist of Socialization, externalization, Combination, and Internalization. In addition, overall manufacturing is done by using ADDIE method and Moodle LMS software assistance.*

*This research resulted in best practice of implementation of preventive maintenance activities for Toshiba BMC-100R that is used to compose the storyboard of e-Learning content as a material for designing e-Learning.*

*Keywords : Preventive Maintenance, Knowledge Sharing, Knowledge Conversion, Tacit Knowledge, Explicit Knowledge, SECI Method, ADDIE Method, e-Learning.*