

ABSTRACT

Machine maintenance process both corrective and preventive maintenance at the Department Maintenance PT Indonesian Aerospace has knowledge which is shaped as an experience of mechanic can be obtained after the process is exceeded in order can be useful for the maintenance process for the next period. Experience in a minds of mechanic which still from tacit knowledge can easily be lost if it is not well documented. Therefore, documentation of knowledge needs to be done through the conversion of knowledge to transform knowledge of mechanic in the form tacit knowledge into explicit knowledge, because knowledge explicit is usually easier to learn.

Knowledge conversion process using the SECI method consists of four stages: Socialization, Externalization, Combination, and Internalization. At this stage of socialization, knowledge of mechanic on Maintenance Department regarding machine maintenance process Toshiba BMC-100(5) in the form of tacit knowledge is captured by an interview. Tacit knowledge obtained from mechanic then documented into explicit knowledge in the form of implementation guide machine maintenance. The results of the implementation guide machine maintenance activity Toshiba BMC-100(5) will be used as the basis for the search of best practice by using brainstorming. Outcome of best practice implementation guide used as a reference to making a storyboard for an e-learning content.

Storyboard was made based on best practice machine maintenance process will be used as a content for making an e-learning. E-learning has made serve as a new learning tool for the mechanics of the implementation guide engine maintenance at Department Maintenance PT Indonesian Aerospace for the next period.

Keywords : Tacit knowledge, explicit knowledge, brainstorming, best practice, storyboard and e-learning.