ABSTRACT

PT Dirgantara Indonesia is one of aerospace companies in Indonesia that supported by a variety of machinery and equipment scattered in all its existing business units. Millac 5H 6P machine is a machine that included in key facility category. In this category of machines, preventive maintenance activities were done just based on the experience of each operator. In a 5 years period, the level of maintenance employee retirement at PT Dirgantara Indonesia is high enough. It can lead to knowledge lost related to the preventive maintenance activities that still carried out by each operator's experience. Therefore, knowledge sharing is required to anticipate knowledge lost when turnover of maintenance operator happens. Knowledge sharing can be done by converting tacit knowledge contained in each maintenance operator's mind into the explicit one in the form of documents.

This study uses knowledge conversion in SECI method that converts tacit knowledge into explicit knowledge so the process of knowledge sharing can be done easily. SECI method contains socialization, externalization, combination and internalization stages. At socialization stage, there is a conversion process from tacit knowledge into tacit one. At externalization stage, the conversion process is done from tacit knowledge into explicit one. Combination is a process that convert explicit knowledge into explicit knowledge, and then the internalization stage of knowledge conversion is done from explicit knowledge into tacit knowledge.

Based on data collection and analysis, the conclusion is that the best practice of preventive maintenance activities can be used as an object for designing e-learning content storyboard, and storyboard generated in this study is used as a guide for e-learning preventive maintenance activities.

Keywords: Explicit Knowledge, SECI method, Preventive maintenance, Tacit Knowledge.