

## ***Abstract***

*PT Dirgantara Indonesia or abbreviated PT DI is the first industry of aircraft which owned by the Indonesian government. Based on data obtained from Maintenance Department of PT DI, there are so many employees of Maintenance Department who will retiring and causes necessity of transfer knowledge about their skills or experiences to others. Transfer knowledge must be done to anticipate loss of knowledge within the employees and it also will be a reference for new employees in developing an innovation. Thus, Knowledge Management is required in form of electronic learning (e-learning). Steps that should to take by PT DI is how to create an e-learning is able to transfer the knowledge of their employees using the waterfall method.*

*In creation of e-learning in this study, the method used is the waterfall method. This is because the method is suitable in the manufacture of products for small scale as well as stages in this method requires the stages completed first before proceeding to the next stage. Besides the waterfall method allows to be done in a short time and limited cost.*

*Application Maintenance Department e-learning allow four types of user to access application: guest; member; contributor; and admin. E-learning application also provides several features in addition to learning the material presented, as it features quizzes, forums, events, and so forth. Based on the research that has been done, e-learning application maintenance PT DI has been created can help employees of Maintenance Department to transfer knowledge owned by its employees.*

*Keyword: transfer knowledge, knowledge management, e-learning application, waterfall method.*