

ABSTRACT

PT. Dirgantara Indonesia the only aerospace in Indonesia that produces aircraft in some types and among them, MK-II has the highest production rate, 24 sets annually. Based on the historical data, the production has a gap between fulfilling the demand from the customer. This incident comes because there is the lateness of each compiler component, one of that is Equipt. This lateness in the Equipt assembly line causes by three factors (part, man, and tool), this research focuses on part factors that have a 54 % intensity of occurrence. The part factors occur if the assembly line's availability part is not suitable for the assembly product (lack of part) because of the lateness of the single part from fabrication. This problem occurs because there is no production control tool in the fabrication department, so it causes the information system is not smooth. In resolving the problem, this research supposes one of the tools Just In Time, namely Kanban. This research focuses on the automation that more effectively employs Electronic Kanban to give the information about parts needed in the Equipt assembly line to reduce the lateness. This research uses the Constan Quantity Withdrawal System method as a guideline for Kanban cards and agile methodology for designing Electronic Kanban on a website. Based on the simulation, the electronic Kanban has reduced the lateness of the Equipt assembly line reduced by 54%, this number based on the total lateness between using electronic Kanban.

Keywords: Kanban, E-Kanban, Lateness, Just In Time, and Equipt assembly line.