Research Regarding the Kanban Card Losses and Its Significances

Nur Nida Azira Md Yasin¹ --- Nurul Hayati Abdul Halim² --- Ahmad Naufal Adnan³

¹,² Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor, Malaysia
³ Faculty of Mechanical Engineering, UiTM, Pasir Gudang, Johor Bharu, Malaysia

Abstract

Kanban card losses are the endless common problem faced by Malaysian manufacturer implemented conventional kanban system. Thus, this research aims to find the root cause of the problem in order to identify the most efficient ways to eliminate the kanban card losses. The field of research is concentrating on the mixed model production line in one of the automotive industry in Malaysia. To solve the problem, an electronic kanban framework is introduced and developed in this research to replace the kanban card. The framework promoting the enhancement in terms of job and planning efficiency, inventory level monitoring as well as abnormalities control in the production site. Nevertheless, this electronic kanban framework is promising would not change the originality and nature of the existing kanban system as what has been created by the company.

Keywords: Conventional kanban system, Electronic kanban framework, Malaysian automotive industry.