MATERIAL *ORDER* SYSTEM *DESIGN* IN THE *SUPPORTING DEPARTMENT* AT PT. XYZ WITH SYSTEM DEVELOPMENT LIFE CYCLE METHOD

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Abstracts

Supporting department is the object of this study which is a department that produces supporting components for composing minibuses, one of which is a minibus with the J type. The problems that occur in this department are the confusion of component names as much as 70% of the 600 components, delays and errors in component delivery for 4- 16 hours of work, and there is no SOP in this department. Given these problems requires the design of a material order system. This problem is solved by using the System Development Life Cycle (SDLC). Based on the SDLC analysis, problem solving was obtained, namely in the form of making system programs, improving system flow, aligning component names, grouping components into kits, creating component catalogs and making SOPs. This solution is approved and has been implemented at PT.XYZ. Based on this implementation, the results show that all component names are aligned between operators, admin, and Microsoft GP, kitting materials can group 600 raw components into 98 packages, delays have been minimized to <1 working hour, production schedules are on target, there are no errors delivery again, and the SOP and catalog have been implemented correctly in assisting all parties in carrying out the production process. This must always be controlled so that delivery delays and name confusion do not recur.

Keywords: *Kitting Material, Supporting department, System Development Life Cycle*