DESIGNING MATURITY MODEL OF
COMPUTER INTEGRATED MANUFACTURING
(Case Study: Mineral Water Industry)

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ABSTRACT

Maturity is capability enhancement degree of an organization which respect to the effectiveness and efficiency of its process and work practice. Maturity study which have been done limited only on Information Technology field. There were no maturity model in manufacturing field. This research conducted to build maturity model for manufacturing field based on Self Assessment Questionnaire. Maturity model consist of four variabels which will examined three composition systems on Computer Integrated manufacturing on three management levels. The variabels are system capability, workforce, computerization and automation. The systems are product design and definition system, production management system, and also material and product management. The levels Management are Top Level, Middle level, and First Line level. This maturity model used the CMMI (Capability Manufacturing Maturity Integration) as maturity grade. The model was implemented on mineral water industry. Based on model implementation, it is obtained that PT.Erindo Mandiri get the IV maturity grade with 64.7% system compliance. On the other hand, PT.Atlantic Biru Raya get the IV maturity grade with 72.6% system compliance.

Keywords : Computer Integrated Manufacturing, CMMI (Capability Manufacturing Model Integration), Maturity, Self Assessment Questionnaire
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