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Perancangan model sistem informasi inspeksi mutu bahan baku pada manufaktur komponen elektronik dengan IDEF0 = Modelling of information system design for incoming quality inspection at electronic manufacturing with IDEF0 utilization / Teuku Firmansyah

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Abstrak

[Industri elektronik merupakan komoditas perdagangan terbesar di ASEAN. Kebutuhan terhadap barang elektronik terus meningkat setiap tahunnya sehingga petumbuhan permintaan komponen elektronik juga terus meningkat. Dengan semakin meningkatnya permintaan komponen elektronik, kecepatan aliran bahan baku dengan kualitas terjaga mutlak diperlukan. Pembuatan model sistem informasi dalam proses inspeksi mutu bahan baku menjadi hal yang penting. Belum adanya integrasi sistem informasi pada inspeksi mutu bahan baku
mengakibatkan banyaknya aktifitas tidak bernilai saat melakukan pekerjaan. Metodologi IDEF0 digunakan untuk membuatu model peta proses aliran informasi. Penelitian ini menggambarkan model aliran proses informasi aktual saat ini (As Is) yang didapatkan dari Focus Group Discussion (FGD) dan model alternatif aliran proses informasi (To Be) yang dapat mengurangi aktifitas tidak bernilai saat melakukan inspeksi dengan validasi melalui wawancara Expert. Dengan pemanfaatan IDEF0, Business Process Reengineering (BPR) dapat
dilakukan pada aktifitas inspeksi mutu bahan baku di manufaktur komponen elektronik. Alternatif aliran proses informasi yang didapatkan adalah aliran informasi yang menggunakan database di server sebagai pusat data dan dokumen inspeksi, serta rangkuman masalah bahan baku yang pernah terjadi sehingga operator tidak perlu melakukan aktifitas yang mengarah pada inefisiensi;The electronics industry is the largest trading commodity in ASEAN. The need
for electronic goods continues to increase each year so that demand for electronic components also raise up. With the increasing demand of electronic components, the incoming parts flow rate with maintained quality is absolutely necessary. Modeling of information systems in the process of quality inspection of incoming part becomes important. The lack of information systems integration on incoming part quality inspection draw in many activities with no value added. IDEF0 methodology used to map the information flow models. This study illustrates the flow model of current actual information process (As Is) obtained from the Focus Group Discussion (FGD) and the alternative model of the flow of information process (To Be) that can reduce the activity with no value added and it has already validated from Expert Interview. With the utilization of IDEF0, Business Process Reengineering (BPR) can be carried on the activity of the incoming part quality
inspection in the manufacture of electronic components. The alternative process flow is the information flow that is obtained in the database server as a data center for all inspection documents and history of the part problems that have occurred so that the operator does not need to do the activities that lead to inefficiency., The electronics industry is the largest trading commodity in ASEAN. The need
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