

ABSTRAK

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Program Studi : Teknik Industri
Judul : ANALISIS PENGENDALIAN KUALITAS UNTUK MENGURANGI
DEFECT PRODUK *SEALANT CARTRIDGE REPACK* DENGAN METODE
SEVEN TOOLS DI PT GRAHA PERTIWI MANDIRI
Dosen Pembimbing : Gadih Ranti, S.Mia., M.T.

Persaingan dalam dunia industri memberikan perhatian penuh pada kualitas tak terkecuali juga dengan PT Graha Pertiwi Mandiri. perusahaan tersebut bergerak dibidang penjualan *silicone sealant*. Terdapat proses produksi yang kurang tepat dan mengakibatkan adanya kecacatan produk yang dihasilkan antara lain label tidak sesuai, *error printing*, jatuh, isi tidak sesuai, *plunger* meleset. Jumlah proses produksi sealant cartridge yang dihasilkan PT Graha Pertiwi Mandiri sepanjang tahun 2021 sebesar 1.798.286 unit, dengan rincian total produk kategori baik sebanyak 1.754.7123 unit dan total produk kategori cacat sebanyak 43.563 unit. Dengan cacat terbanyak pada bulan Maret yaitu sebanyak 8.434 unit dan cacat terbanyak dihasilkan dari jenis cacat *error printing* sebanyak 21.537 unit. *Seven tools* merupakan suatu alat yang digunakan pengendalian proses statistik, khususnya berupa tujuh alat kendali kualitas, yaitu *flowchart*, *check sheet*, histogram, *pareto chart*, diagram tebar, *control chart* dan diagram *fishbone*. Didapati hasil pengolahan dan analisis data dengan diagram *pareto defect* terbesar pertama adalah jenis *defect error printing* sebesar 49,44% dan *defect* kedua adalah jenis *defect* label tidak sesuai sebesar 29,84%. Hasil analisis dengan diagram tebar terdapat hubungan kuat positif antara *defect error printing*, label tidak sesuai dengan jumlah produksi. Didapati faktor penyebab cacat *error printing* dan label tidak sesuai ada 4 faktor yaitu mesin, manusia, metode, material. Usulan perbaikan yang dibuat untuk *defect error printing* yaitu *briefing* sebelum memulai produksi, memeriksa tinta pada penyimpanan, menambah pekerja baru dalam manajemen dan membuat jadwal *cleaning*. Usulan perbaikan yang dibuat untuk *defect* label tidak sesuai yaitu menambah pekerja baru dalam manajemen, melakukan pelatihan berulang 6 bulan sekali, membagi tugas dengan pekerja yang tidak terlalu sibuk dan menambah pekerja baru dengan bidang *maintenance*.

Kata Kunci : *Seven tools*, Pengendalian Kualitas, 5W + 1H, *Sealant Cartridge*.

ABSTRACT

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Study Program : Industrial Engineering
Title : *Quality Control Analysis To Reduce Sealant Cartridge Repack Defects With Seven Tools Method At Pt Graha Pertiwi Mandiri*
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Competition in the industrial world pays full attention to quality, including PT Graha Pertiwi Mandiri. The company is engaged in the sale of silicone sealants. There is a production process that is not right and results in product defects, including inappropriate labels, printing errors, falling, incorrect contents, plungers slipping. The number of sealant cartridge production processes produced by PT Graha Pertiwi Mandiri throughout 2021 was 1,798,286 units, with details of the total product category being good as many as 1,754,7123 units and the total product category being defective as many as 43,563 units. With the most defects in March as many as 8,434 units and the most defects resulting from printing error types as many as 21,537 units. Seven tools is a tool used to control statistical processes, specifically in the form of seven quality control tools, namely flowcharts, checksheets, histograms, pareto charts, scatter diagrams, control charts and fishbone diagrams. The results of data processing and analysis using Pareto diagrams showed that the first largest defect was the type of printing error of 49.44% and the second defect was the type of defect label that did not match at 29.84%. The results of the analysis with the scatter diagram there is a strong positive relationship between printing error defects, labels not in accordance with the amount of production. It was found that there are 4 factors that cause printing errors and inappropriate labels, namely machines, humans, methods, materials. Suggestions for improvements made for printing error errors are briefing before starting production, checking ink in storage, adding new workers in management and making a cleaning schedule. Proposed improvements made for the defect label are not appropriate, namely adding new workers in management, conducting repeated training every 6 months, dividing tasks with workers who are not too busy and adding new workers in the maintenance field.

Keywords: Seven tools, Quality Control, 5W + 1H, Sealant Cartridge.

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