

## Perancangan inspection plan dan pengukuran kerja aktivitas inspeksi packaging material pada industri susu bayi = Design of inspection plan and work measurement of packaging material inspection activity in baby milk industry

Andina Rahmasari, author

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### Abstrak

Salah satu aktivitas yang memegang peranan penting dalam menjamin kualitas packaging material yang akan dipakai proses produksi adalah aktivitas inspeksi. Dibutuhkan perancangan inspection plan yang komprehensif yaitu, sampling plan yang mencakup penentuan sample size, analisis performa sampling plan tersebut ke dalam bentuk Operating Characteristic Curve dan penentuan spesifikasi attribute. Penentuan sample size dalam penelitian ini menggunakan MIL-STD 1916, karena menggunakan konsep "zero accept one reject". Output inspection plan perlu dilengkapi dengan pengukuran kerja, karena aktivitas inspeksi tidak terlepas dari sumber daya manusia yang melakukan di lapangan. Sehingga, kerja inspektor juga mempengaruhi performa inspeksi. Dalam pengukuran kerja, dihitung waktu standar yang dibutuhkan inspektor dalam melakukan inspeksi, serta jumlah inspektor yang sesuai. Inspection plan dan pengukuran kerja saling melengkapi satu sama lain dan perlu dilakukan keduanya secara berurutan ketika merencanakan aktivitas inspeksi.

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One of main activity that has important impact to make sure packaging material quality that would be used in production process is inspection activity. There is needed to design comprehensive inspection plan, include sampling plan that consists of determination of sample size, analysis of sampling plan performance in to Operating Characteristic Curve and determination of attribute specification. In this research, determination of sample size is using MIL-STD 1916, because it is use "zero accept one reject" concept. Output of inspection plan needs to be completed by work measurement, because inspection activity can not be separated from human resources, that work in workplace directly. So, inspector performance also influence performance of inspection activity. In work measurement, it would calculate the standard time that needed by inspector, and calculate appropriate number of inspector. Inspection plan and work measurement are complementary to each other and both needed to sequentially when planning inspection activity.