

Análisis Del Indicador OEE, Determinando Las Causas Que Lo Afectan en La Línea De Envasado De La Industria Licorera Del Cauca

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Abstract

The indicator of Overall Equipment Effectiveness (OEE), was obtained to the performance and quality, in the production line of La Industria Licorera del Cauca, for Depaletizadora, Triblock, Labeller and Cartoner for presentations of sugar-free and traditional aguardiente, for media (375 cc) and bottle (750 cc). It was obtained a fluctuation for availability between 19% and 76%, for Performance indicator between 30% and 49% and the Quality indicator 99.33% and 99.99%; the variable with the most significant failure in the indicator was the availability, the change of presentation with 21%, it was allowed to establish that the Cartoning production unit has the lowest percentage of the OEE indicator, corresponding to 8% in the sugar-free liquor presentation for the medium format. An experimental design (DOE) was carried out using the Minitab18 software, to design the ideal conditions of the process for the OEE of unit of production cartoner. The value of P in the ANOVA identified Availability as the statistically most significant and influential factor, with a value of $P = 0.097$ above the value of established significance of 0.05 as alpha, contributing to the amount of variation in the response.

Keywords: efficiency, quality, availability, performance, OEE.

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