Abstract

The objective of this research is to develop methods to reduce the defective rate in the process of Hair Dryer using Failure Modes and Effects Analysis (FMEA). According to the analysis, 81 potential causes of failure are found. By using Pareto diagram, there are 44 majority causes of failure. Then the causes are categorized and 14 failure modes are identified. These 14 failure modes are corrected by the process improvement and the failure detection. This research then provides methodologies to reduce the defective rate for each mode and the methodologies are implemented in the production process. The results show that the defective rate is reduced from 100% to 4% and the Risk Priority Number (RPN) is decreased from 14,203 to 5,568 or 60.80%.

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