

Title:

Investigation the Impact of 5S Implementation toward Accident-Free Manufacturing Industries

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Abstract:

In this paper, the impact of 5S implementation toward accident-free manufacturing industries was reviewed and investigated. The 5S method is a standardized process that when systematically implemented creates and maintains an organized, safe, clean, and efficient workplace. The 5S also implemented and improved the visual controls to make any process non-conformance's obvious and easily detectable. The 5S is a systematic housekeeping technique used by organizations initiated from Japanese words; Seiri (sort), Seiton (set in order), Seiso (shine), Seiketsu (standardize), and Shitsuke (sustain). The implementation of a 5S environment in a workplace requires employee motivation and good management. All the different levels of an organization need to put their best efforts on a day-to-day basis and work together toward achieving improved performance and reducing waste. The 5S is the most effective tool and widely applied worldwide in any organization to improve the workplace. However, industrial accidents still occurred and increased. Based on current data, the Department of Safety and Health (DOSH, Malaysia) in their Web site stated an increase of accidents by 107% (January to June 2018–2019) and it is a long journey before an accident-free industry can be achieved. Hence, in this research, the impact of 5S implementation toward accident-free manufacturing industries was investigated. The literature of the 5S implementation was thoroughly reviewed through searching from published literature from the Emerald Insight, Elsevier, Google Scholar, and other databases. The data captured from this published literature was analyzed to study the impact of the 5S implementation. The result of this research shows based on the theoretical implementation, the 5S implementation potentially helps the organization to reduce the industrial accident but it requires systematic monitoring plans such as an internal audit. Through an effective investigation in this paper, the impact of 5S implementation on accident-free manufacturing industries was successfully carried out.