

عنوان مقاله:

Textile Industry Hazard Identification and Risk Assessment by Using HAZAN Method

محل انتشار:

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خلاصه مقاله:

Background: Today with industry growth, hazards are increasing. The most important parts of these industries are human resources and employees, that face with many various hazards. Therefore, in order to protect and increase the productivity these hazards must be identified and analyzed to be controlled. Methods: The present study focused on hazard identification and risk assessment in spinning sector of a textile industry as one of the important and strategic industries by using HAZAN method. For data gathering, different methods including HAZAN worksheet, risk detecting checklist, walking, talking, process plots and documents were used, and then risk assessment was carried out. Results: The finding represented 102 risks in the production line. Most of the risks were found in ring section (n=33), Flyer (n=26), Autoconer (n=18), Tightening (n=15) and Packing (n=10) respectively. 20.59% of these risks were 2nd rank (undesirable), 16.67% were 3rd rank (acceptable if controlled) and 62.74% were 4th rank (acceptable). In addition, high-risk jobs were feeding the empty bobbin during the shift and bobbin handling from the Autoconer unit. Also, analyses were performed based on the risk assessment method and statistical tests were not required. Conclusion: The 4th rank risk was the largest group that's acceptable. It is notable that 2nd risk rank should be turned into 3rd risk rank in reliable time. For 3rd risk rank making sure that existing control is in place is sufficient. For making a safe work environment and increasing productivity, minimizing risk by safety training and other measures are useful.

کلمات کلیدی:

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