IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

 $International\ Open-Access,\ Double-Blind,\ Peer-Reviewed,\ Refereed,\ Multidisciplinary\ Online\ Journal\ Peer-Reviewed,\ P$

Volume 4, Issue 1, June 2024

Identification of Occupational Work Place Hazards and Evaluation of Risk for Overhanging Lifting Equipment using Real-World Operations

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Abstract: The important noticeable objects on any occupational work place sites and a status of upgraded operations, cranes possess the capacity of lifting heavy loads and maneuvering the loads over long spans. When properly located on a site, cranes can strategically lift and lower loads to virtually any desired location on a site. Unfortunately, when large numbers of cranes have been dispatched to an Industrial site, the hazard exposure also increases for workers who work with, around or under these cranes. As the part of this dissertation hazard identification will carried out with the help of checklist and different mathematical methodology with respect to various lifting machines and their control measures will also be given in this work, to reduce the number of Accidents and improved safe work conditions in industry for using this engineering tool this is the objective of this project work. The Second objective of this study was to examine the descriptions of accidents related to Lifting machines and other serious factors and then identify the direct causes and contributing factors of these accidents..

Keywords: Occupational work Place, Hazard Identification, Risk Evaluation, Lifting operations, Lifting equipment's, Fault Tree Analysis, Mathematical concept, Practical approaches, Hazard and Risk calculation with Check list etc

DOI: 10.48175/IJARSCT-18710

