## Assessment of Human Factors Analysis and Classification System in Construction Accident Prevention

Authors : Zakari Mustapha, Clinton Aigbavboa, Wellington Didi Thwala

**Abstract :** Majority of the incidents and accidents in complex high-risk systems that exist in the construction industry and other sectors have been attributed to unsafe acts of workers. The purpose of this paper was to asses Human Factors Analysis and Classification System (HFACS) in construction accident prevention. The study was conducted through the use of secondary data from journals, books and internet to achieve the objective of the study. The review of literature looked into details of different views from different scholars about HFACS framework in accidents investigations. It further highlighted on various sections or disciplines of accident occurrences in human performance within the construction. The findings from literature review showed that unsafe acts of a worker and unsafe working conditions are the two major causes of accident in the construction industry. Most significant factor in the cause of site accident in the construction industry is unsafe acts of a worker. The findings also show how the application of HFACS framework in the investigation of accident will lead to the identification of common trends. Further findings show that provision for the prevention of accident will be made based on past accident records to identify and prioritize where intervention is needed within the construction industry. **Keywords :** accident, construction, HFACS, unsafe acts

**Conference Title :** ICCSCE 2016 : International Conference on Civil, Structural and Construction Engineering **Conference Location :** Singapore, Singapore **Conference Dates :** July 04 05, 2016

Conference Dates : July 04-05, 2016

1