

Utilization of Safety Measures in Prevention of Site Accidents in Nigerian Construction Industry

Authors : Samuel Opeyemi Williams, Razali Adul Hamid, Mohd Saidin Misman, Dominic Ileyemi Ajayi, Taki Eddine Seghier

Abstract : Construction industry is famous with hazardous and high-risk environment with operatives facing a greater risk of work-related fatality or injury than operatives in other industries. It is characterised with different types of accident, ranging from electrocution, trip and slip, fall from height, struck-by, explosion, trench collapse, to scaffolding accidents, with each type being caused by different factors. However, accidents are unplanned, unforeseeable and unexpected events, but regardless of the high-risk nature of the industry, accidents are preventable. The aim of the paper is to determine the extent of the utilization of the safety measures, as well as identifying the factors underlining the non-usage. A research methodology consisting of a literature review was used to identify the types and causes of site accidents, while a well-structured questionnaire was used to determine the level of the usage of safety measures on site. The data were analysed with the results revealing the use of protective clothing, safety helmet, first aid, protective shoe, safety belt, and face shield to aid safety of workers, as well as ascribing non-usage of safety measures to cost, ignorance, lack of experts and non-inclusion in contract document. Recommendations are included in the paper suggesting the enforcement of the utilization of safety measures in reducing the spate of accident occurrence on construction sites.

Keywords : construction industry, safety measures, accident, prevention

Conference Title : ICABCE 2017 : International Conference on Architecture, Building and Civil Engineering

Conference Location : Singapore, Singapore

Conference Dates : May 04-05, 2017