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Application of TQM in construction sites

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Safety in any construction project can be realized when it is carefully implemented. Several factors would be considered such as the budget, time constraints, acceptable level of safety and the quality of the finished product. Safety management is important as it will lower the chances of fatal accidents and thus excludes any extra costs. Total Safety Management (TSM) principles and its relation with the Total Quality Management (TQM) have been applied in this research. A survey was designed, conducted and analyzed to obtain feedback from engineers working in different companies. The study showed that engineers blamed each other and none of them accepted responsibility. The outcome of the study also showed that 80.3% of the respondents admitted that the visibility and activity of leadership in different activities in their sites result in safer work area whereas 72.1% of the respondents believed that wrong formwork and scaffolding design are the major reasons of construction fatal accidents in their organizations. The survey indicated that 80.4% of the engineers who filled the survey were implementing all safety and health procedures to avoid accidents; however the number of these accidents is still high.

Biography

Adil K Al-Tamimi has Teaching, Consultation/Industrial, and Research interests in the areas of: High Performance /Sustainable Green Concrete in Harsh Environment, Management, Safety, Construction Materials, Carbon Fibers, Management of Materials, and Engineering Quality. He has worked with the construction industry for over 25 years. Prior to joining AUS he contributed to the establishment of the Advanced Concrete & Masonry Center "ACM" at the University of Paisley. He is the member of the Concrete Society - UK 1996-2000, Fellow member of UK Association of Building Engineers, 2005-2012, and member of UAE Society of Engineers. He is a co-author of the book *Workability & Rheology of Fresh Concrete*, 2002, RILEM, Paris and Chair/Co-Chair of the seven International Conferences on Application of Traditional and High Performance Materials in Harsh Environment, Sharjah, 2004, 2006, 2008, 2010, 2012, 2013 and 2014. Published over 100 papers in journals and proceedings, three book chapters and co-authored one book.

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