Safety design integrated in the building delivery system

In construction, it is important to view safety and health as an integrated part of the way that “designers” are working. The designers cover architects, constructors, engineers and others who carry out their consulting services in the design phase of a construction project. The philosophy is simple, if the demands for safety and health are incorporated early on in the solving of a building assignment, then it becomes much easier to organise the executing phase in a responsible manner safety-wise. But, the problem is that very few of the designers have knowledge or experience of how to do so. The purpose of this article is to demonstrate how safety and health can be integrated in the design phases integrated in the management delivery systems within construction.

The method for the research was to go through the building delivery system step by step and create a normative description of what, when and how to fully integrate safety in each part of the process. The result is a concept and guideline including control forms for how to integrate safety design in the Building Delivery System plus what to do and when. The concept has been tested in an educational context. The practical value of the concept depends, nevertheless, on how you manage and organise the detailed design process. In the end, prioritization, motivation and leadership are of vital importance to the construction process and to how good the safety at the site will be for the craftsmen. The developed concept has to be seen as a valuable and practical tool for obtaining the safe site.

General information
State: Published
Organisations: Department of Management Engineering, Production and Service Management, Risk Research Group
Contributors: Jørgensen, K.
Number of pages: 9
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Safety Science Monitor
Volume: 17
Issue number: 1
Article number: 5
ISSN (Print): 1443-8844
Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Web of Science (2017): Indexed yes
BFI (2016): BFI-level 1
BFI (2015): BFI-level 1
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
BFI (2013): BFI-level 1
ISI indexed (2013): ISI indexed no
BFI (2012): BFI-level 1
ISI indexed (2012): ISI indexed no
ISI indexed (2011): ISI indexed no
BFI (2008): BFI-level 1
Original language: English
Keywords: Lean construction, Safety and health, Design, Buildability
Electronic versions:
Safety_design_integrated.pdf
Source: dtu
Source-ID: u::10723
Research output: Research - peer-review > Journal article – Annual report year: 2014