

TITLE OF DIPLOMA THESIS

Work accidents with cranes in Greece

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ABSTRACT

The invention of the crane and its evolution over time has greatly facilitated work in the construction industry and its use is now considered essential on most construction sites. Despite the valuable help that this lifting machine has offered to man, the non-observance of the necessary safety measures and its incorrect use are responsible for most of the work accidents that occur by its use. This thesis makes a brief reference to the crane, its operation and composition, and then presents the main causes and effects of work accidents on construction sites in general, and with cranes in particular. Also legislation regarding the use of cranes in construction sites in Greece is analyzed regarding safety measures. Finally, through a literature review the more critical and frequent causes of occupational accidents with cranes in Greece are recorded. Finally, by using multicriteria decision tools and more specifically the Analytical Hierarchy Process (AHP) the causes are prioritized.

KEYWORDS

Work accidents, cranes, Analytical Hierarchy Process - AHP, construction sites