

Identification and Analysis of Factors Influencing Safety Culture in Drilling Industry Using Strategic Options Development and Analysis Methodology

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Abstract

Onshore and offshore drilling oil and gas wells have been known as one of the most hazardous industries. In this sector, unsafe behaviors, actions and operational decisions could have irreparable consequences. Therefore, promoting safety culture in organizations can lead to the prevention of accidents and catastrophes. Soft Operational Research (O.R.) techniques such as Soft Systems Methodology (SSM) and Strategic Options Development Analysis (SODA) can be utilized for providing awareness for practitioners to know their complex problems better. Moreover, these techniques can aim researchers to find a proper solution for those complicated problem. In this paper, identification and analysis of factors influencing the safety culture in the drilling industry are done by strategic options development and analysis (SODA) methodology in order to prevent and reduce accidents which are the results of unsafe actions and behaviors.

Keywords

Drilling Industry, Safety Culture, Soft Operation Research and Strategic Options Development and Analysis.

Biographies

Hadi Shirouyehzad graduated in Iran with BS and MS in Industrial Engineering in 1999 and 2002, respectively. He is a PhD candidate of Industrial Engineering at Research and Science Branch, Islamic Azad University, Tehran, Iran. Currently, he is a faculty member of Industrial Engineering Department of Islamic Azad University of Najafabad. He is the author of two books and more than 60 published papers at national and international levels in refereed journals and conferences since 2003.

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