

Correlation Between Accident Rates And Site Safety Levels In Building Construction Projects

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Summary

This paper measures the site safety level of building construction projects in the Eastern Province of Saudi Arabia and correlates them to the accident rates of these projects. A total of forty-five building construction projects were surveyed. They are classified as large, medium, and small according to the monetary value of each project. This was done to know whether or not the safety level on a construction site was a function of the project's size. It was shown that there is a relationship between them and as the project size increases, the safety level increases too. Moreover, it was found that as the site safety level increases in the project, the accident rate decreases. A correlation between the middle management practices and the accident rates of the projects was also performed. It was concluded that middle management has a major effect on construction safety.

References:

1. 1993, SAUDI ARAMCO CONSTRU
2. ARMSTRONG PT, 1980, FUNDAMENTALS CONSTRU
3. BROCK DS, 1986, FIELD INSPECTION HDB
4. BUSH VG, 1975, SAFETY CONSTRUCTION
5. DEREAMER R, 1980, MODERN SAFETY HLTH T
6. DIEKEMPER R, 1970, ASEE J DEC
7. GRIMALDI JV, 1989, SAFETY MANAGEMENT
8. HINZE JW, 1976, THESIS STANFORD U
9. JAMES PE, 1984, CONSTRUCTION SAFETY
10. JANNADI MO, 1995, ASSE, V40, P30

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<http://www.kfupm.edu.sa>

11. JANNADI MO, 1995, BUILD RES INF, V23, P60
12. JANNADI MO, 1996, BUILD RES INF, V24, P108
13. KAVIMIAN HR, 1990, OCCUPATIONAL ENV SAF
14. LEVITT RE, 1975, THESIS STANFORD U
15. LEVITT RE, 1993, CONSTRUCTION SAFETY
16. PETERSON D, 1982, HUMAN ERROR REDUCTIO
17. TARRANTS WE, 1980, MEASUREMENT SAFETY P

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