

Thesis Title Factors Associating Accidents
 Among Workers in a Group of Industry

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Date of Graduation 29 May B.E. 2535 (1992)

ABSTRACT

A descriptive study was conducted in a group of industry consisting of Cement Refractory, Construction Material, Machinery, Pulp and Paper and Trading Groups. The aim of the study was to highlight the accident situation in these group of industries; to find out the distribution of accidents among the groups; also to find out the factors associating accidents in these groups of industries. Two hundred and forty accident cases were taken as a sample size. This was the three years data of accidents from 1989-1991 of 5 groups of industries

It was found that out of total cases of injury, 6.3% were permanent partial disability and 2.5% were fatal accidents. All fatal accidents occurred in Construction Material and Cement Refractory Group. Most of the accidents were fractures(31.3%), fingers were the most affected parts(35%). Out of total accidents 19.6% were due to "taking unsafe position", 15.8% were due to "unsafe loading, placing and mixing" 10.8% cases were due to "hazardous arrangement", 7.9% due to "defective tools-equipment" and 6.3% were due to "unsafe design".

It was seen that incidence rate and frequency rate were higher in Construction Material Groups. The severity rate was higher in Cement Refractory Group followed by Construction Material Group. Machines were found significantly associated with fracture, amputation and permanent disability. It was also found that there were significant association between major accidents and Unsafe Act and Unsafe Condition.

The study concluded that workers awareness and participation in safety management, training and education of workers, maintenance of standard house keeping, safe design and proper record keeping, and effective accident analysis will reduce the occurrence of accident and human sufferings which will subsequently increase the productivity