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Construction industry accidents in Spain

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Abstract

Problem

This paper analyzed industrial accidents that take place on construction sites and their severity. *Method:* Eighteen variables were studied. We analyzed the influence of each of these with respect to the severity and fatality of the accident. This descriptive analysis was grounded in 1,630,452 accidents, representing the total number of accidents suffered by workers in the construction sector in Spain over the period 1990-2000.

Results: It was shown that age, type of contract, time of accident, length of service in the company, company size, day of the week, and the remainder of the variables under analysis influenced the seriousness of the accident. *Impact on injury prevention:* The results obtained show that different training was needed, depending on the severity of accidents, for different age, length of service in the company, organization of work, and time when workers work. *Impact on industry:* The research provides an insight to the likely causes of construction injuries in Spain. As a result of the analysis, industries and governmental agencies in Spain can start to provide appropriate strategies and training

to the construction workers.



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Keywords

Accidents; Construction; Variables; Severity

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Miguel A. Camino LÃ³pez has a Ph.D. in Construction accidents from Burgos University (Spain). He is Professor of safety issues in construction industry in Burgos University and had collaborated with Argentina and French Institutes in the influence of organization at work in accidents occurrence. He is now working in Labor risk prevention in construction industry and the influence of alcohol and drug consumption in accident occurrence.

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include occupational safety and health issues in Spain and environmental health issues in Germany, in addition to traffic safety issues in the USA.

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Áscar J. González Alcantara received his BS and Ph.D. degrees in Industrial Engineering from the University of Navarra in 1997 and 2000, respectively. Since 2004, he has been with the Area of Business Organization, University of Burgos, where he now works as Professor of Production Management, and research and development scientist. His research interests include Quality Management, Labor risk prevention, and Corporate Social Responsibility.

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