EuroSciCon ICOHS 2019
5th Edition of International Conference on
OCCUPATIONAL HEALTH AND SAFETY
April 18 - 19, 2019 | Berlin, Germany



HELLENIC OPEN UNIVERSITY

Title: Occupational risk assessment in steel manufacturing plant.Optimal investment's decision-making point

Author's Name: Vasileios Boursinos

Supervisor's Name: Dr. Konstantinos Vatalis, Professor, Greek Open University

Abstract

This paper primarily focuses on the precise determination of the optimal point an administrative investment in occupational risk prevention can be implemented (see fig. 2). This kind of research is considered quite crucial for the risk management science, in general.
In the present case study, the industrial risks' causes in a specific steel manufacturing site are defined, assessed and quantitated. Each production dept. risks along with their root causes are graphically representated, also all departments' risk is rated, in order to recognize the section with the highest risk that has actually to be given the most attention.
The time the steel plant management is required to decide whether to go for further risk prevention measures or keep working under the existing conditions is clearly defined in this study.
The work accidents' cost elements are deeply broken down, in a way to efficiently investigate all the factors that heavily affect the accidents' compensations expenses (see fig. 1).
Extended analyses of the applied methodology as well as a reference to topics for further research are provided as well.

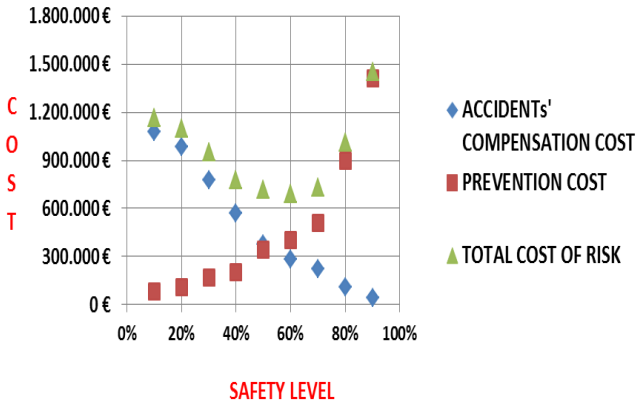


Fig. 1 Optimal Safety Investment Point

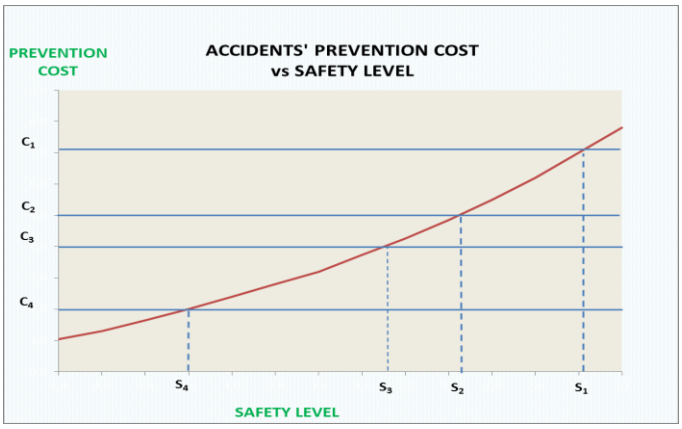


Fig. 2 Accidents' Prevention Cost vs Safety Level

Biography

V. Boursinos has been graduated from the National Technical University of Athens Greece in1992, as a Chemical Engineer. He has worked as QC/QA Mngr in Plastics Industry for 5 years, also as Operatonal Mngr for an international Group of Co for 17 years. He recently took over the role of the General Manager for an Anerican Packaging Business in Greece.

Presenting author details
Full name: Vasileios Boursinos
Contact number: +30 6937052361
Email id: vasilis.boursinos@maillis.com
Category: e - poster presentation
Session name: Occupational Industrial Safety and Hygiene

Research interest:

- The design of a model, which could directly relate the administrative risk-preventive measures to the actual effects in industrial process.
- The scientific definition of the relation between the professional training and the occupational risk reduction.