

Kampol Nantasamran 2010: Factors Relating to the Occupational Accidents of the Workers:
A Case Study in Ban-Wa (Hi-Tech) Industrial Estate, Phra Nakhon Si Ayutthaya Province.
Master of Engineering (Safety Engineering), Major Field: Safety Engineering,
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The objectives of this research are to study environmental factors in workplace, factors regarding organization's safety management, and working behavioral factors that effect work-related accident of the workers. Factors that effect work-related accident of the workers will be taken into account for set up measures and preventive methods for the company. Study populations are 400 workers in workplaces located in in Ban-Wa (Hi-Tech) Industrial Estate, Phra Nakhon Si Ayutthaya Province. Questionnaires were used for data collection. Computer was used for data analysis.

Results of the study have found that environmental factors in workplaces that effect work-related accident at the .05 level of significance are proper control measure for adequate illumination in work area, proper control measure for temperature or heat in work area, appropriate installation of the ventilation system in work area, proper control of fume or chemical vapor in work area, proper control and prevent danger from equipment, tools, and machines using electricity as energy source, proper setting of work condition based on ergonomic concept, proper control measure for chemical storage in work area based on suitable classification, proper storage of materials in work area, and proper monitoring of the cleanliness of work area, strictly obedience of rules, warnings, and prohibiting during working, use of personal protective equipment while working, use of proper equipments or tools while working, drink alcohol at before working or drink while working, work when not ready to work such as sick, be troubled, slept late, or something disturbing concentration, take pain relief medicine before working or during working, trial-error working, urge at work and then ignore step of working for safety, play with colleagues while working, adjust/clean machines while they are operating, operate machine which is not the duty when necessary, pass equipment or tools by throwing to colleagues.

Student's signature

Thesis Advisor's signature