

Industrial Ergonomics Improvement at a Refrigerator Manufacturing Company in Iran: An Approach on Interventional Ergonomics

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Abstract : Nowadays a lot of people are working in several sorts of industrial sectors in which there are some risk factors which threaten human being especially in developing countries. One of the main problems which effect on workers' health refers to Ergonomics. Ergonomics as multidisciplinary science concerns workers' health and safety in terms of somatic and mental concepts. Surely ergonomics interventions and improvement make a better condition for workers and change the quality of working life to better condition. In this study, one of the factories in Iran which is producing some kinds of small and medium size of refrigerators was chosen as the sample. The preliminary ergonomics observation of the mentioned factory showed that there are some risk factors in terms of ergonomics aspects, so an ergonomic intervention was defined, then some ergonomic assessment methods such as NMQ,OWAS, and Environmental Ergonomic Assessment were used. Also Anthropometric measurement was done. This study shows that there are some workstations and plants which suffer some degrees of ergonomic problems. Considering with the gathered data, illumination, noise control and workstation design in metal workstation are known as the priority actions. Some parts of the mentioned interventions are ongoing actions. it seems that the mentioned intervention and workstations design make a better condition for workers, because ergonomics make a safer and more sustainable environments for human being.

Keywords : anthropometry, ergonomics, health, NMQ, OWAS

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