

Orawan Buaban 2014: The Study of Factors Affecting Accident in Air Conditioner Motor Manufacturer. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Faculty of Engineering. Thesis Advisor: Miss Ailada Treerattrakoon, Ph.D. 77 pages.

There were 438 work accidents in air condition motor manufacturer from January 2011 to December 2012. There were 5 departments with the highest work accidents which were production engineering department 55 times, shell department 48 times, stator DH frames assembly department 42 times, motor DH frames assembly department 39 times and aluminum injection department 27 times. This research is aimed to study factors affecting accident in air condition motor manufacturer and to conduct precautions to prevent the work accidents.

Studying of work accident record in the past, then analyzing factors affecting accident using Fishbone Diagram found that operators were not properly trained about safety practices, improper gloves were used during work and machines were not provided guarding. Therefore, the researcher determines the safety measures by providing the properly safety training for the operators before they start working, providing proper gloves and providing the machine guarding. Monitoring work accidents between before improvement and after improvement from January to June 2013 and from July to December 2013 respectively has found that the number of work accidents has been reduced from 649.66 times per 1 million work hours to 471.46 times per 1 million work hours, which is 178.20 times per 1 million work hours or 27.43%. After applying nitrile coated nylon gloves and PU coated nylon gloves to this 5 departments instead of nylon gloves, the expense has been reduced from 3,200 baht per month to 1,307.86 baht per month, which is 1,892.14 baht per month or 59.13%.

Student's signature

Thesis Advisor's signature