

Sumalee Buensanteai 2010: The Study of Appropriate Ergonomics Assessment Form for Hard Disk Drive Assembly Work: A Case Study of Hitachi Global Storage Technology (Thailand) Ltd. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Charay Lerdsudwichai, Ph.D. 114 pages.

The aim of this study was determined the appropriate evaluation assessment for desktop and mobile hard drive industries. The result from RULA assessment which generally used shows both jobs , desktop and mobile hard drive assembly jobs have the same level of ergonomic risk. In fact, desktop drive assembly job has bigger and heavier material pieces. Moreover, the statistics of ergonomic illness from company medical center indicates that workers who perform desktop drive assembly job have more Work-related Musculoskeletal Disorders (WMSDs) records Grip strength dynamometer measurement results also shows that the wrist fatigue of desktop drive assembly works were significantly muscle strength decreased

Therefore, after all evaluation several ergonomic risk assessments, a new risk assessment for ergonomic assembly of hard disk drive assembly job, called EAHDD (Ergonomics Assessment for Hard Disk Drive Assembly Work ), was developed. This new assessment have been used to assess the same kinds jobs and the results show that it could identify the unacceptable 15 from 16 of the desktop hard disk drive assembly stations jobs, but found only 6 from 16 of mobile hard disk drive station jobs. These results show that EAHDD is a suitable assessment for desktop and mobile hard drive industries

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