

ABSTRACT

This research focuses on the problems that occur at PT. Sunrise Abadi in process of threads making which is a subprocess of As Bearing Seater process. This problem is reinforced by the results of the risk assessment score using Job Safety Analysis method, which the score is 8 with moderate level of risk. So it needs to be reviewed and take risk control measures to prevent the risk level increased. The risk of thread making process are musculoskeletal disorder to the operator. This risk is caused by the design of the table and chair that are not ergonomic and doesn't consider anthropometric aspects. In the actual design, the height of the table is lower than the height of the chair, so the operator's posture has to bend while working. This is reinforced by the results of the calculation of RULA with score 6, which means it needs to be improved. So, it is necessary to make changes to the chair and table design, thus making the operator's posture better. By adjusting and considering the complaints and needs, more ergonomic tables and chairs have been designed with an anthropometric approach. With the changes in the design of table and chair, an improvement in posture was evidenced by a decrease in the value of the RULA score to 4, so that the working posture of the proposed table and chair design was better than the previous work posture.

Keywords: Risk Assessment, Job Safety Analysis, Musculoskeletal disorder, RULA.