ABSTRACT

OHS (Occupational Health and Safety) is an activity to guarantee and protect workers from occupational diseases. At this time B4T has implemented an OHS system. This can also be proven by providing fire extinguishers, first aid kits, and related documents. One example is the Hazard Identification Quality Procedure and K3L document. The automotive laboratory is one of the testing facilities at B4T. In the automotive laboratory, the testing process uses a testing machine. Based on the results of the risk identification, some testing machines have a moderate risk. The step to reduce risk is risk control. In the shearing machine, there is a risk that wheel flakes can be thrown and hit the operator, controlling the risk is by using APD, knowing procedures, and doing engineering. In this research, the design of machine guarding is carried out in order to reduce the risk value and be safe for the operator. The design method used is the rational design method. The result of the proposed design of the aids is that the operator is safe from the risk of throwing wheel debris during the testing process with a shearing machine, reducing the level of risk, and allowing it to be applied to testing work stations using a shearing machine.

Keywords*: *Risk, Design, Safe, OHS