

## Analisis Ergonomi: dampak Kebisingan Suara Tembakan Ss-2 terhadap Prajurit Penembak

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### Abstrak

*At this moment, the Republic of Indonesia is continuing to develop nation-made weapon and armory, to support the industry of national defense. One of the newest achievements in rifle making is the SS-2 type. Therefore, it needs more evaluation in ergonomic aspects, in order to avoid occurrence of aspects of the weapon which could cause bad effect to the shooting performance and the health of soldiers in long term. This matter could be eliminated in the making process of the SS-2, consider more intensely on its ergonomic aspects. Noise is a part of ergonomic concern which has been one crucial matter in industry, especially in manufacturing plants. Noise has been proven to cause bad effects on human's health. In analyzing noise generates by firing sound observation on three primary acoustic factors are needed These factors are sound intensity (dB), frequency (Hz), and duration of sound exposure (ms). ANOVA analysis, correlation analysis, maximum permissible impulse noise, and continuous sound analysis are used to draw the relation between shooting position (standing, squat, prone), and the acoustic (noise) factors, relation between noise factors and shooter performance, and the maximum number of permissible impulse noise (firing sauna) per day. Based on those analyses, the noise impact on soldiers' health and performance could be seen therefore any preventive measures in dealing with noise impact can be implemented.*