

UNIVERSITI TEKNOLOGI MARA

**THE RELATIONSHIP BETWEEN NOISE
EXPOSURE WITH BLOOD PRESSURE AND PULSE
OF THE WORKERS IN AUTOMOBILE
WORKSHOP**

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**Project submitted in fulfilment of the requirements
for the degree of**

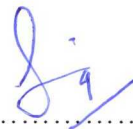
**Bachelor (Hons.) Of Environmental Health And
Safety
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DECLARATION OF STUDENT

Project entitled ‘the relationship between noise exposure with blood pressure and pulse of the workers in automobile workshop ‘ is a presentation of my original research work. Wherever contributions of other are involved, every effect is made to indicate this clearly, with due reference to the literature and acknowledgement to collaborative research and discussions. The project was done under the guidance of Mr Abdul Mujid Bin Abdullah as project Supervisor and Mr Nasaruddin Bin Abdul Rahman as Co-Supervisor. It has been submitted to the Faculty of Science Health in partial fulfillment of the requirement for Degree of Bachelor in Environmental Health and Safety (HONs).

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ABSTRACT

Noise exposure is most common hazard in a workplace. Most workers are exposed to noise every day whether they realized it or not. But, many of us do not care and worry about noise problem that usually occur in the workplace. Noise is one of the most factors that always been ignore by the worker and employee. Worker or employees always think that sound is a thing that we hear every day and it is a normal thing. Sometimes the worker do not think that sound is a hazard to them. But the workers do not know too much exposure can bring numerous of health effect. Noise is unwanted sound. Noises that we hear become noise when we feel discomfort and annoy while listening to it. But different individual have vary opinion about noise. Sometimes, we think that sound that we hear are annoying and cause disturbance but, not to some other people. Noise effect can be either auditory effect and non-auditory effect. For auditory effect are noise induced hearing loss and permanent hearing loss. Example for non-auditory effects is stress, sleep disturbance, lack of focus at workplace, hypertension and increase of heart rate. These a studies of non-auditory effect to the worker at the workplace. Noise exposure measurement at workplace have any relation to hypertension and increasing heart rate among worker. The management can loss many productivity if the worker always sick and not well because of exposure to extreme level of noise. So the management should protect the worker from this common hazard in the workplace. From the Bivariate correlation test for diastolic and systolic before and after resting with noise exposure (personal) showed a weak relationship among control group. A negative association is seen between pulse before working and noise exposure (personal). But it show significant when the pulse are measure after resting. It showed there are significant relation between pulse and noise exposure (personal). Maybe at this time the worker fell more relax after exposed to high noise. The blood pressure levels of control group are not significant and does not increase the blood pressure level because the control group are working in closed are where there is less noise exposure. Thus we can relate to hypothesis because there is significant correlation between noise exposure with blood pressure and pulse of the workers in automobile workshop. that noise level versus bp (systolic and diastolic) showed a significant relation at the 0.05 level. But the pulse only show a weak relation between noise exposure (personal). Thus the result showed there are relationship between noise exposure and blood pressure and pulse among the worker in this automobile workshop.