

**NOISE ASSESSMENT AND CONTROL FOR  
INDUSTRIAL MACHINE**

*A project report presented in partial fulfilment of the  
requirement for the award of Advanced Diploma in  
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Technology  
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## SUMMARY OF PROJECT

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The work involved in this project are as follows:

- To study the principle of noise control and the theory of sound.
- To prepare the site according to International Standard (ISO 3746) requirement.
- To gather sound level data from industrial machine i.e. the Air Compressor.
- The machine shall be operated under two conditions:-
  - Idling
  - Full load.
- To construct the spectrum graph using the data collected.
- To design a noise enclosure.
- To fabricate the noise enclosure.
- To install the noise enclosure around the machine.
- To record data of background noise as a basis of reference.
- To take data from machine without treatment and with treatments (with enclosure around the machine):
- To calculate the reduction of noise obtain from the data collected.
- To plot the collected data in the spectrum graph.
- To analyse the spectrum graph.
- To calculate the efficiency of the noise enclosure.
- Conclusion and recommendation.

We conduct our experiments in according the scope of work above. The equipment we used is the sound level meter (**Brüel & Kjær**) type 2231 in accordance with the requirement of International Standard ISO 3746.

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