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MECHANICAL ENGINEERING COURSE

DIPLOMA PROJECT

SAFETY MEASURES AND
PROCEDURES IN A METAL
WORKSHOP INDUSTRY

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SAFETY MEASURES AND PROCEDURES IN A METAL WORKSHOP INDUSTRY

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**SAFETY MEASURES AND PROCEDURES IN A METAL
WORKSHOP INDUSTRY.**

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PROJECT REPORT

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SUMMARY

This project deals with the design of safety measures and procedures in a metal Workshop industry.(ALCO FILTERS LTD)

This project covers the department where the main parts of filters are constructed.

The objectives of this project were:

1. To study the methods of safety in a metal workshop factory.
2. To get fully acquainted with the factory act regulations and draw up plans for implementing them.
3. To investigate all safety guards and any existing safety precautions.
4. To improve safety measures and design equipment for a better safeguard or operators and other personnel.
5. To write up safety rules for individual cases.
6. To write up procedures and responsibilities for a Safety Officer and to design charts for possible communications with management and operatives.
7. To estimate the cost involved in the designing and implementing the safety procedures.

INTRODUCTION

Accidents have always been with us and have been caused by unsafe conditions and unsafe acts. On the job, there have always been workers who were proud of their ability to lift very heavy objects, bend iron bars, and other feats of strength, balance or exhibitionism. They believed that safety was "sissy". By today's concept of safe performance, risk taking at the work is not only unnecessary, but unacceptable.

There is no doubt that the most important single reason for accidents at the work is **apathy**.

Safety is mainly a matter of the day- to -day attitudes and reactions of the individual-and- serious accidents at work are rare events in the experience of individuals. If individual experience is not conducive to safety awareness, then safety awareness must be deliberately fostered by as many specific methods as can be devised.

More effective safety awareness in industry can only be developed by an accumulation of influences and pressures (on):

1. President or owner.
2. Senior manager.
3. Safety officer (Supervisor)
4. Trade unions.
5. Workers.

Apathy is the greatest single contributing factor to accidents at work. This attitude will not be cured as long as people are encouraged to think that safety and health at work can be an over- expanding body of legal regulations enforced by an ever increasing army of inspectors.

Usually discussions about training for safety and health tend to remain at an abstract and generalized level ... an integral part of job training generally.... or specialized training taught separately. In the normal job training of every operative, there should be instruction in the potential hazards of the job as well as in the general principles of safe working..... explicit with due emphasis.

It is equally clear that specialized training in safety matters is needed for particular categories such as managers, safety officers, instructors, supervisors, and workers' safety representatives.

In this project an attempt will be made not only to design certain safety procedures and make suggestions on safety matters but also to emphasize that:

a) Every employer should realize that by ensuring safety in every activity of his factory, not only prevents accident causing, but also contributes to the increase of production rate, quality and quantity of products and thus increase the profits too.

b) Every employee should have in mind that he must be properly trained, have also knowledge about the hazards of his job, be responsible and pay attention to his job so as to be able to fulfill its objectives and responsibilities in the factory without risking his life or the life of his colleagues.

When these two factors are completely fulfilled in every factory then I am sure, a great step will be made in diminishing industrial accidents.