

HIGHER TECHNICAL INSTITUTE

MECHANICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

SAFETY MEASURES AND PROCEDURES IN A
MENTAL WORKING INDUSTRY

M / 868

BY: THEODOROU DOROS (3M2)

JUNE 1999

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METALWORKING INDUSTRY

By

THEODOROU DOROS

PROJECT REPORT

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Dedicated to my

parents for everything

they have done for me!

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SUMMARY

This project deals with the design of health and safety procedures for the "BMS Metal Tubes" Industry in Cyprus.

The project covers the following departments of the factory:

- 1) Metal Tubes Construction Department
- 2) Galvanizing Department
- 3) Maintenance Department

An attempt was also made to raise an important factor that affects health conditions in factories, that is, the ergonomics.

Finally, since the role of a Safety Officer is of high importance, procedures and responsibilities were described to be followed by such an Officer. Proper checklists were also given in order to help in the promotion of safer and easier work conditions.

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 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 simple 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 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 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 this two factors are completely fulfill in every factory then I am sure, a great step will be made in diminishing industrial accidents.