

**Higher Technical Institute**  
**MECHANICAL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

**IMPLEMENTATION OF QUALITY CONTROL  
PROCEDURES IN A BREWERY INDUSTRY**

**BY**  
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**M/843**

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# IMPLEMENTATION OF QUALITY CONTROL PROCEDURES IN A BREWERY INDUSTRY

by  
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**To my parents for  
tolerating me  
for as long as they have**

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## ABSTRACT

The object of this project was to implement Quality control procedure in a brewery industry.

The project was carried out in CARLSBERG. This company deals with the production of beer.

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# IMPLEMENTATION OF QUALITY CONTROL PROCEDURES IN A BREWERY INDUSTRY.

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## SUMMARY

The main objectives of this project was to study in detail the theory on quality control, to investigate the quality control procedures and methods in a brewery industry and to suggest methods of improvement of the existing quality control practices. Also to carry out sampling measurements in order to test the effectiveness of the suggested techniques, by using various charts and measure the process capability of the process by variable data. Finally to carry out an economic comparison between the existing and the proposed quality control procedures and techniques. The whole content of the project is divided into nine chapters which contain:

Chapter one: Introduction to the project

Chapter two: Introduction to quality control

Chapter three: Introduction to statistical process control (S.P.C.)

Chapter four: Introduction to the Company

Chapter five: Quality Control of Carlsberg beer

Chapter six: Implementations of SPC techniques in the factory

Chapter seven: Cost of quality

Chapter eight: Conclusions

Finally charts and tables are included in the appendices.