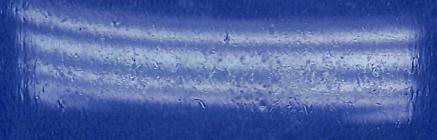
## OCCUPATIONAL HEALTH AND SAFETY AMALYSIS OF FIREFIGHTERS IN CAYITE



THESIS

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Undergraduate Thesis
Submitted to the Faculty of the
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## **ABSTRACT**

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This study aimed to analyze the occupational health and safety of firefighters in the province of Cavite. Specifically, this research study attempted to: (1) the demographic profile of the firefighters in terms of: sex, civil status, age, type of position, and years in service; (2) determine the activities performed by the firefighters in Cavite; (3) determine the existing health and safety hazards that the firefighters encounter; (4) determine the possible risks that may affect the health and safety hazards of the firefighters; (5) determine the control measures that are necessary to reduce or remove the risks of those existing health and safety hazards; and (6) determine the possible recommendations for the effectiveness of the control measures.

The participants of this study were one hundred sixty one (161) fire fighters from the province of Cavite, 25 participants from 1<sup>st</sup> district, 12 participants from 2<sup>nd</sup> district, 11 participants from 3<sup>rd</sup> district, 10 participants form 4<sup>th</sup> district, 28 participants from 5<sup>th</sup> district, 31 participants from 6<sup>th</sup> district and 44 participants from 7<sup>th</sup> district. One hundred twenty-two (75.58% of the total participants) of the firefighters were male and thirty-nine (24.22% of the total participants) were female.

The age of the participants ranged from 21-60 years old, majority of the participants (55.27% of total participants) ranged from 21 to 30 years of age. Ninety-three (57.77%) of the total participants were married. Also, all of the participants were uniformed personnel (100%) and the years in service of the firefighters ranged from 1

year to 32 years of service, majority of the participants (64.60%) ranged from 1 to 8 years in service.

In terms of activities performed by the firefighters, the male firefighters always conduct the activity of providing safety education to public with a highest mean of 3.84 percent, while recovery and management of hazardous, toxic and flammable materials is sometimes conducted by male firefighters with a lowest mean of 2.79 percent. Also female firefighters always conduct the activity of providing safety education to public with a highest mean of 3.88 percent and recovery and management of hazardous, toxic and flammable materials recorded a lowest mean of 2.75 percent.

The identified health and safety hazards of firefighter in the province of Cavite were classified into six types including physical hazards, psychological hazards, biological hazards, ergonomic hazards, chemical hazards and safety hazards.

Through the results of the study, the risks were identified with the aid of risk ranking matrix. From this, majority of the participants rated the identified risks as tolerable. The researchers decided what control measures to be used to minimize the risk of health and safety hazards to be able to protect people, property or the environment from the identified hazard. Most of the risks for both male and female that resulted as high level of risk came from the infrastructure risk.

## TABLE OF CONTENTS

Page
BIOGRAPHICAL DATAiii
ACKNOWLEDGMENTv
ABSTRACTvii
TABLE OF CONTENTSix
LIST OF TABLESxii
LIST OF FIGURESxv
LIST OF APPENDICESxvi
INTRODUCTION1
Statement of the Problem3
Objectives of the Study3
Significance of the Study4
Time and Place of the Study5
Scope and Limitation of the Study6
Definition of Terms6
Conceptual Framework8
REVIEW OF RELATED LITERATURE9
METHODOLOGY26
Research Design26
Sources of Data
Sample Size Determination
Data Gathering Procedure28

.

Research Instrument29
Data Analysis29
Statistical Treatment
RESULTS AND DISCUSSION
Demographic Profile of the Respondents
Gender32
Civil Status32
Age
Type of Position
Years in Service
Activities of firefighters34
Activities of male firefighters
Activities of female firefighters
Hazard Identification
Physical hazards encountered by male firefighters
Physical hazards encountered by female firefighters37
Psychological hazards encountered by male firefighters38
Psychological hazards encountered by female firefighters39
Biological hazards encountered by male firefighters39
Biological hazards encountered by female firefighters40
Ergonomic hazards encountered by the male firefighters41
Ergonomic hazards encountered by the female firefighters42
Chemical hazards encountered by the male firefighters43

Chemical hazarda anagyutanad hayda C. 1 C. C. 1
Chemical hazards encountered by the female firefighters44
Safety hazards encountered by the male firefighters45
Safety hazards encountered by the female firefighters46
Risk Assessment48
Infrastructure risk encountered by the male firefighters in Cavite49
Infrastructure risk encountered by the female firefighters in Cavite50
Behavioral risk encountered by the male firefighters in Cavite51
Behavioral risk encountered by the female firefighters in Cavite53
Accident risk encountered by the male firefighters in Cavite54
Accident risk encountered by the female firefighters in Cavite55
Operational risk encountered by the male firefighters in Cavite56
Operational risk encountered by the female firefighters in Cavite59
Environmental risk encountered by the male firefighters in Cavite61
Environmental risk encountered by the female firefighters in  Cavite
Control Measures63
SUMMARY, CONCLUSION AND RECOMMENDATIONS88
Summary88
Conclusion90
Recommendations95
REFERENCES97
APPENDICES101