

*ASSESSMENT OF ACCIDENTS CONCERNING THE
PUBLIC UTILITY BUS AT SELECTED
AREAS IN CAVITE*

Thesis

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**ASSESSMENT OF ACCIDENTS CONCERNING THE PUBLIC UTILITY BUS
AT SELECTED AREAS IN CAVITE**

An Undergraduate Thesis
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*Assessment of accidents concerning the
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ABSTRACT

MARANAN, RONALD M. and ROMEN, NHICCO P. Assessment of Accidents Concerning the Public Utility Bus at Selected Areas in Cavite. Undergraduate Thesis. Bachelor of Science in Industrial Engineering. Cavite State University, Indang, Cavite. April 2012. Adviser: Engr. Willie C. Buclatin.

The study identified the causes of accidents and significant factors in driving a bus associated to the types of bus accidents. The individual attributes, environmental hazards, traffic condition, salary, driving time and system of dispatching were tested with frequency to identify the factors that contribute to the occurrence of bus accidents. The subjects in the study are 90 male bus drivers from six different bus companies in Indang and Trece Martires City.

Through Checklist for identifying factors affecting the types of accidents, the individual attributes, environmental hazards, traffic condition, salary, driving time and system of dispatching were obtained. Somer's D technique was used for correlation analysis between variables such as bivariate analysis that describes the joint distribution of the variables in the study. The result shows that individual attributes such as height, number of years in driving and attitude and behavior were associated to the types of bus accidents. Environmental hazard and traffic condition were also associated to the types of bus accidents.

Application of Occupational Safety and Health principles were recommended. Installation of safety devices, ergonomically designed driver's and passenger's seats, and appropriate entertainment devices were also suggested.

TABLE OF CONTENTS

	Page
BIOGRAPHICAL DATA.....	iii
ACKNOWLEDGEMENT.....	v
ABSTRACT.....	vii
TABLE OF CONTENTS.....	viii
LIST OF FIGURES.....	x
LIST OF TABLES.....	xi
LIST OF APPENDICES.....	xii
INTRODUCTION.....	1
Statement of the Problem.....	3
Significance of the Study.....	3
Objectives of the Study.....	4
Statement of Hypotheses.....	4
Times and Place of the Study	6
Definition of Terms.....	6
Scope and Limitations of the Study.....	7
REVIEW OF RELATED LITERATURE.....	8
METHODOLOGY.....	16
Research Design.....	16
Sampling Frame.....	16
Sample Size Determination.....	16
Definition of Variables.....	17

Independent Variables.....	17
Dependent Variables.....	18
Survey Design.....	19
Survey Administration.....	20
Data Collection.....	20
Data Coding.....	20
Data Analysis.....	22
RESULTS AND DISCUSSION.....	25
Most Common Causes of Bus Accidents.....	25
Individual Attributes.....	26
Environmental Hazards.....	32
Traffic Condition.....	34
Commuters Evaluation.....	36
Rate of Accidents from Three Municipalities.....	38
SUMMARY, CONCLUSIONS AND RECOMMENDATIONS.....	39
Summary.....	39
Conclusion.....	40
Recommendation.....	41
BIBLIOGRAPHY.....	43
APPENDICES.....	45

LIST OF FIGURES

Figure	Page
Conceptual Framework.....	5

LIST OF TABLES

Table	Page
1 Causes of bus accidents.....	25
2 Height in reference to damage to property.....	26
3 Height in reference to side impact.....	27
4 Attitude and behavior (Question#2) in reference to run-off.....	28
5 Attitude and behavior (Question#3) in reference to run-off.....	28
6 Number of years of driving a bus in reference to damage to property.....	29
7 Number of years of driving a bus in reference to head-on collision.....	30
8 Number of years of driving a bus in reference to rear impact.....	31
9 Number of year of driving a bus in reference to side impact.....	31
10 Environmental hazard (Temperature - Question#5) in reference to physical injury.....	32
11 Environmental hazards (Temperature – Question#6) in reference to physical injury.....	33
12 Traffic condition (Question#2) in reference to rear impact to physical injury.....	34
13 Traffic condition (Question#2) in reference to run-off.....	35
14 Attitude and behavior of the drivers from different bus liners (commuters rating).....	36
15 Quality of service of different bus liners (commuters rating).....	37
16 Rate of accidents in two municipalities along Aguinaldo Hi-way.....	38

LIST OF APPENDICES

Appendix	Page
A Causes of Bus Accidents.....	45
B Correlation of Matrix at the 0.05 Level of Significance.....	47
C Table	
1 Attitude and behavior of the drivers and quality of service: Ferdinand Liner.....	51
2 Attitude and behavior of the drivers and quality of service: Blessed Grace Express.....	53
3 Attitude and behavior of the drivers and quality of service: Ferear Liner.....	55
4 Attitude and behavior of the drivers and quality of service: Don Aldrin Transit.....	57
5 Attitude and behavior of the drivers and quality of service: Lorna Express	59
6 Attitude and behavior of the drivers and quality of service: Safeway Express.....	61
D Table	
1 Rate of bus accidents in Imus, Cavite.....	64
2 Rate of bus accidents in Dasmaríñas, Cavite.....	65
E Bus Liners and Operators.....	66
F Sample Questionnaires for Bus Drivers.....	68
G Sample Questionnaire for Commuters.....	74

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INTRODUCTION

Public transportation is supposed to be a safe and economical way to travel, also easing congestion of our roads and helping to keep traffic running smoothly. Busy commuters, school children, and people who cannot drive for any reason often use public transportation to get them where they need to go in an easy and timely manner. Millions of people take buses every year to tourist destinations, school related activities, religious events, athletic events, camps, and many other locations.

A bus is a road vehicle designed to carry passengers. Buses can have a capacity as high as 300 passengers. The most common type of bus is the single-decker bus, with larger loads carried by double-decker buses and articulated buses, and smaller loads carried by mid-buses and minibuses; coaches are used for longer distance services.

Public transportation and bus accidents are not entirely common, but when they happen, the often result is tragic personal injury or even death for many of the passengers