# ASSESSMENT OF ACCUSENTS CONCERNING THE PUBLIC UTILITY BUS AT BELECTED AREAS IN CAPITE

Thesis

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

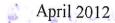
An Undergraduate Thesis
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In partial fulfillment of the requirements for the degree of Bachelor of Science in Industrial Engineering



Assessment of accidents cocerning the Public Utility Bus selected areas in 362,109,R66,2012 T-4852

Maranan, Ronald M. Romen, Nhicco P.



### **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.

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

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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