

Project Proposal: Assessing the Impact of Safety Training Programs on Reducing Construction-Related Injuries Among Construction Workers in New York.

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Institution: University of Niagara Falls

Course Title: Principles of Analytics (DAMO 500)

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Due Date: Feb 2nd, 2025

Introduction

The construction industry is one of the most hazardous sectors globally, with numerous risk factors contributing to injuries and fatalities. In New York City, construction-related injuries and fatalities are a significant concern, with 1,075 fatalities according to the U.S. Bureau of Labor Statistics (2023), and was the highest for all sectors going back to 2011. Hence there is a need for Construction safety programs to deploy a set of rules, processes, controls, and procedures to protect construction workers. Safety training programs have been widely recognized as essential to occupational health and safety management in the construction industry (Choudhry et al., 2017; Hinze et al., 2013). These programs aim to equip construction workers with the knowledge, skills, and attitudes necessary to perform their jobs safely and efficiently. Despite their importance, the effectiveness of safety training programs in reducing construction-related injuries among construction workers in New York City remains unclear. This study aims to assess the impact of safety training programs on reducing construction-related injuries among construction workers in New York City, addressing a critical knowledge gap.

Study Objectives

The goal of this study is to examine the impact of safety training programs in the construction industries and how they translate into reducing workplace injuries among workers in the city of New York. Specific aims include: Evaluating the current safety training programs available to construction workers through data analysis, identifying the types of training programs offered and their content, assessing the accessibility and participation rates among construction workers, analyzing the relationship between safety training and the incidence of construction-related injuries, compare injury rates before and after the implementation of safety training programs, identify barriers to effective training and areas for improvement, provide

recommendations to policymakers, employers and training providers for enhancing safety training programs based on research findings, propose strategies for increasing worker engagement in safety training.

Expected Contributions

This research aims to contribute to occupational safety and health by examining the effectiveness of safety training programs in construction. The findings will provide valuable insights for construction firms, regulatory bodies, and employers, highlighting the benefits of investing in comprehensive safety training. The study will also empower construction workers and lay the groundwork for future research on occupational safety and injury prevention.

Research Questions

This study aims to explore key research questions illuminating Safety training needs in the Construction industry in New York. These guiding questions will inform the data collection and analysis process, guaranteeing the project's findings are relevant, actionable, and responsive to the State's needs. The research questions include:

1. What is the relationship between occupational health and safety training programs and the incidence of workplace injuries among construction workers in the city of New York?
2. To what extent do safety training programs reduce the frequency of construction-related injuries among workers in New York?
3. What are the key components of effective safety training programs that contribute to reducing workplace injuries among construction workers in New York?

References:

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