

ASSESSING THE EFFECTIVENESS OF EQUIPMENT IN ENHANCING FIRE RESPONSE IN VALENZUELA CITY

ABSTRACT

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This study, titled "Assessing the Effectiveness of Equipment in Enhancing Fire Response in Valenzuela City," investigates the adequacy, accessibility, and safety features of the firefighting equipment employed by emergency responders in Valenzuela City. It aims to determine how effectively the current equipment supports fire response operations and enhances overall emergency management. Furthermore, the research seeks to identify critical challenges and constraints related to equipment availability and functionality that may impact operational efficiency and firefighter safety. This study utilized a descriptive research design, combining both quantitative and qualitative methods. A total of 40 participants, comprising professional firefighters and fire volunteers, were involved. Data collection was conducted through structured survey questionnaires that examined the availability and operational condition of firefighting equipment, the efficiency of fire response, and the challenges faced in equipment maintenance and procurement. Findings indicate that while the majority of respondents strongly agree that firefighting equipment in Valenzuela City is generally adequate and accessible, several challenges hinder optimal fire response. The most critical issues identified include outdated equipment, an insufficient number of firefighting vehicles, and irregular maintenance. Furthermore, the lack of standardized protocols and limited training on proper equipment use were found to negatively affect the overall effectiveness of fire response efforts. To enhance the efficiency of fire response operations, this study recommends investing in modern firefighting equipment and establishing systematic maintenance schedules to ensure optimal functionality. Strengthening training programs for fire responders is also essential to improve proficiency in equipment handling. Moreover, improving the organization of equipment storage, securing additional funding for procurement, and fostering collaborative partnerships among relevant agencies are crucial measures to bolster the city's overall emergency response capacity.

RECOMMENDED CITATION

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