

Fire prevention and protection in the school environment: A literature review



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ABSTRACT

This article deals with the importance of fire prevention and protection in schools, aiming at partnerships to primarily protect the lives of individuals present at school in situations of

uncontrolled fire propagation, punctuating strategies to combat it. The main fire safety strategies (SCI), specifically, in public schools, in order to understand how the municipality has been dealing with this highly relevant subject. An empirical, qualitative, bibliographical research was used as a methodology, mainly considering the thoughts of the authors: Rego, who has dealt with this theme. It is necessary that the school forms its school brigade and adopts training in fire fighting and first aid notions, as basic safety requirements.

Keywords: Prevention, Fire fighting, Public school.

1 INTRODUCTION

This article proposed to carry out a review of the literature on the importance of fire prevention and protection in schools, aiming to safeguard the lives of individuals present in the educational institution in situations of uncontrolled fire propagation, pointing out strategies to combat it.

It is not uncommon for fires to be reported in schools and when it is inspected it is found that it did not meet the basic standards of fire prevention. Therefore, in order to avoid or even minimize these occurrences, school units must adopt preventive measures aimed at protecting people's physical and property integrity against possible accidents generated by fire.

According to the new current law No. 13556 of the year 2004, where it provides for fire safety, its competence to the military fire brigade of the State of Ceará CBMCE. This statute with planning and inspections based on the requirements that govern this safety, with the protection of life against fire in buildings and risk areas within the scope of the State of Ceará.

School fire safety fundamentally involves the preparation of students and educators (VENTURA, 2021). In this sense, the Fire Department, in partnership with schools, should help form a fire prevention and protection mindset in schools.

To this end, after the preparation of a Fire Prevention and Protection Plan (PPCI) by the school, fire simulation exercises are recommended under the instruction and supervision of the Fire Department.



1.1 GENERAL OBJECTIVE

The general objective of this study is to analyze the importance and strategies of fire safety in the school and its partnership.

Protective measures are the same for all schools. Among them is the mandatory installation of fire extinguishers, hydrants or hoses, alarm, lighting and emergency signaling.

Buildings must have escape routes, emergency exits, and access that allows the fire engine to enter (PADIAL, 2013).

1.1.1 Specific Objectives

- a) To investigate the problems found in the literature of authors who have dealt with this theme;
- b) Notice the points of non-compliance and propose adaptations against the risks against fire in the school;
- c) Identify and point out appropriate resolutions so that there is an awareness of the risks that may occur in the school, proposing strategies for a prevention and evacuation plan.

It was observed that, according to the problem situations, once the practices of the actions of the school routine are identified and characterized, the planning in a preventive and organized way against the fires can be of a large ditch to be developed during the school year, where its administrative and formal genesis reveals a need for care and safety precautions.

Considering the complexities that permeate the fire safety process in the school. It is then up to the school to provide guidance on the issue of safety at school and how to prevent and know how to act in case of any form of incident.

Thus, it is of great importance that we seek to make everyone aware of the importance of the school environment as a safe place for them to maintain their lives with tranquility in their teaching and learning process in a comfortable way. In the search for quality and good results.

Several bibliographic studies were carried out during the process, as well as observations, aiming to improve our knowledge about the importance of safety and against the risks of fires in the perception of the school community.

2 LITERATURE REVIEW OF AUTHORS WHO HAVE DEALT WITH THIS TOPIC

According to the literature, Fire Safety can be understood as a broad concept that brings together several protective measures, including: fire prevention; fire protection; firefighting; Oxidizer: It is the element that activates fire and intensifies combustion, through its combination with the gases or vapors of the fuel (FAGUNDES, 2013 p. 22).



According to Ono, 2013 apud Gomes, 2014, says that in this way he ensures the objective of these measures, in general, and thus keeps the risk and probability of fire at a tolerable level.

The result based on the success of any public activity, that is, also private, is directly proportional to the fact that it protects man as a fundamental piece, against the risks to his physical integrity, where in the course of his work, or even in the conditions in which it is carried out (REGO 2011). In this context, this study consists of analyzing the importance and strategies of fire safety in the school to achieve the objectives of and confirm or not the hypotheses elaborated.

Therefore, it can be considered that, through the detailed discussion of the authors who have dealt with this theme, they are aware of the existence of the risk of fire in the school. It is necessary for the school to form its school brigade and adopt a training program in firefighting and first aid notions.

That technicians, professionals, politicians and citizens should discuss in a more serious way, the improvement at the municipal level on fire safety in Brazil, especially beyond the legislation. In addition to this concern, there is also the care to systematically map such strategies in order to obtain in the end a broad panorama of how our professionals are dealing with this extremely delicate subject. Such elements aim to ensure rationalization, organization and prevention in the work against fire, so that the care of the actions makes it possible to avoid any catastrophe of the rich against fire in the school.

This work is relevant because it is necessary to take action to fight the fire and evacuate. In addition, the implementation of a safety culture within a school, with a well-designed program, project or planning class so that they can orient themselves, anticipating problems, increases the concern for decision-making for managers and teachers and students, thus avoiding losses and tragedies.

Based on the authors' study, regarding the theme dealt with here, with the findings that were made throughout the research. Thus, evidencing the relevance of this process and its implications in the daily practice of their practice in the social reality in which they are inserted, especially in relation to basic safety requirements, such as the number and correct allocation of fire extinguishers, exchange of expired loads, emergency signaling and lighting.

3 METHOD

It was used as a methodology of an empirical, qualitative research of bibliographic nature for the theoretical basis of this study in order to achieve the objectives outlined and confirm or not the hypotheses elaborated.

According to Marconi and Lakatos, (2017).

The study is bibliographic, where it aims to put the reader in contact with everything that has been studied in the literature of these authors who have dealt with this theme, observed or established



on the subject in question. A set of information to be documented, with a bibliographic nature for the theoretical basis necessary for the study.

The description of the methodological procedures, methods used for the development of the research, identifying their investigation strategies, results and discussions pertinent to the researched theme.

4 DISCUSSION

Therefore, it can be considered that, through the detailed discussion about the existence of fire risk in the school, through a review of theorists who have dealt with this topic, it is necessary for the school to form its school brigade to monitor and adopt a firefighting training program with notions of first aid.

The success of any public or private activity is directly proportional to the fact that it protects its fundamental part – Man – against risks to his physical integrity that may arise from his work or the conditions in which it is carried out (REGO, 2011). As well as, (ONO, 2013 apud GOMES, 2014), it says that in this way it ensures the objective of these measures, in general they are ensured.

In this context, this study consists of analyzing the importance and strategies of fire safety in schools.

School buildings, they also need to adapt to the various requirements of the fire department, especially basic safety in relation to issues such as number number, correct allocation of their extinguishers, the replacement of these loads that are expired, their emergency signaling, as well as lighting in the emergency sector, entrance and exit.

SEDUC, as well as the SME and the fire department, joined forces to work and adapt the buildings of public school buildings, with safety standards. The goal is to build a network of support and protection for all students and municipal schools.

Among the engineering sectors of the state and municipal departments of Education of Fortaleza, that is, the SME together with the coordination of technical activities of the fire department met to deal with the execution of integrated actions between these institutions.

This meeting put into practice the search for a continuous improvement of projects aimed at preventing and at the same time fighting fire and panic in the school units of the state and municipal public networks.

The partnership aims to bring the responsible sectors closer together, multiplying knowledge and thus realigning an increasing number of buildings to safety needs.

The next steps will be to evaluate the diagnoses raised by the educators and, based on this, outline new strategies to confront violence in the student environment. For this, other meetings must take place.



5 CONSIDERATIONS

In this way, they believe that everyone who makes the school needs to be aware of the fire safety in the school spaces within the requirements in the form of law, regulations or technical safety standards. There is a need for a fire safety plan, including the control of finishing materials, emergency exits, fire brigade, fire extinguishers, emergency signage and plan emergency action to prevent accidents at school.

Through this study, it was possible to observe that the concern with the preservation of life, taking into account the conservation and maintenance of the physical structure and electrical installation, must have a fire brigade action plan, thus avoiding the beginning of fire so that it does not take catastrophic proportions with serious incidents with the municipal public school community.



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