Research on the Inheritance and Development of Traditional Ethnic Games Based on Engineering thinking

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Abstract: In the process of inheritance and development of traditional ethnic minority games, there are difficulties and loss of traditional games. So, the paper intends to analyse, implement and achieve the specific three stages from the perspective of engineering in the inheritance and development of traditional ethnic minority games. We attempt to find good solutions of inherit and develop the traditional games of ethnic minorities.

1. Introduction

Most of the researches on engineering thinking focus on the cultivation of students' engineering thinking in the field of engineering, but in recent years, some researches try to cultivate students' engineering thinking in the field of education [1-3]. Traditional ethnic minority games are not only the reflection of ethnic minority culture, but also the treasure of Chinese culture. With the development of economy and society, the acceleration of the process of global integration, they promote the spread and exchange of ethnic culture. Traditional ethnic minority games, especially traditional ethnic minority games are actively catering to and adapting to the development of modern society. Traditional ethnic minority, the games are also facing the problems of inheritance and development, this paper attempts to discuss the inheritance and development of traditional ethnic minority games with perspective of engineering thinking.

2. Research on the Inheritance and Development of Traditional Ethnic Games based on Engineering Thinking

2.1 Engineering Thinking

At present, there are various definitions of engineering thinking, which are originally extended from the engineering field to a wide sense of thinking mode, Zehui Zhang regarded engineering thinking as a way of thinking and thinking habits to solve problems, and the problem to be solved is a "project", such as: project decision maker's designer, project implementer [4]. Meilan Zhao and others pointed out that engineering thinking is a way of thinking to look at the world and deal with it from the perspective of engineering. To make clear the original form and inherent laws of objective objects, engineering thinking is a way of thinking to look at the world and deal with it from the perspective of engineering [5]. It is a kind of systematic thinking mode with overall consideration, and also a kind of planning entity thinking mode, aiming to design the thinking mode of the ideal entity and its construction process. Engineering thinking has the characteristics of realizability (reality), creativity and complexity. This study is more inclined to Zhao Meilan's definition of engineering thinking. Engineering thinking has been extended from the original thinking mode of solving problems in the pure engineering, then, it field to the specific practice in other fields with strong practicality. So this paper attempts to use the process of engineering thinking to explore inheritance and development of traditional ethnic games, in order to provide new ideas for the development of traditional ethnic games.

2.2 Analysis Framework

With the help of the analysis process framework of engineering thinking, this study analyzes the

inheritance and development of traditional ethnic games. The characteristics of the realization (reality) of engineering thinking are that the analysis of traditional ethnic minority games is based on the reality, so that the inheritance and development of traditional ethnic minority games can be operated. The research on the inheritance and development of ethnic traditional games is based on the background of the continuous development of traditional culture. With the development of social politics and economy, the traditional gathering of ethnic minorities is gradually broken, and ethnic culture has changed from the original unification to diversification. So that there is no ready-made model for the inheritance of ethnic traditional games, which must be combined with the reality of social development to inherit and develop creatively. The complexity of engineering thinking, the inheritance and development of traditional ethnic minority games are affected by many factors. These factors are taken into account by using system theory, which means that in the process of inheritance and development, it has complexity characteristics. The analysis framework used in the study is properly adjusted based on Zhao Meilan's completion of the thinking process of engineering thinking.

2.3 Analysis on the Inheritance and Development of Traditional Ethnic Games Based on Engineering Thinking

2.3.1 Inheritance and Development Path Design of Traditional Ethnic Games

(1) Consideration of Purpose and Regularity

For the inheritance and development of traditional ethnic minority games, we should adhere to the natural inheritance of traditional ethnic minority games, and follow the law of the generation and development of traditional ethnic minority games [6], instead of rigid and rigid inheritance; using cultural ecology is more like a research method. The main point of view is that the research on a phenomenon and a behavior and human must be carried out in the social, economic, technological, natural and other ecological environment. Secondly, there is a two-way relationship between the research object and the cultural ecosystem. Influenced by the cultural ecosystem, the object also adapts to the cultural ecosystem actively. From the agricultural era of traditional games of ethnic minorities to machine production society and information age, from the original traditional games of ethnic minorities to the present traditional games of ethnic minorities, the traditional games of ethnic minorities are closely related to the economic and cultural life. The belief and homeopathic witchcraft of the ancestors, and the social and cultural ecosystem of ethnic minorities on which the game relies has taken place great changes. They have affected and adapted the traditional system of ethnic minorities. There is no ready-made way for the inheritance and development of traditional games of ethnic minorities. We can use the theory of cultural ecology to predict the possible path of future development of traditional games of ethnic minorities, and analyze the possible path of future inheritance and development of ethnic minorities. It may find an effective inheritance way.

(2) Decision-Making Thinking on the Inheritance and Development Path of Traditional Ethnic Games

Decision-making thinking in engineering thinking originally refers to the selection of a specific action plan from the available plans designed [7]. In the selection process we should not only predict and estimate the short-term and direct results of the project, but also the long-term and derived results of the project, not only predict and estimate the positive effect of the project, but also predict and estimate the negative effect of the project. We need to make an in-depth evaluation of several possible development paths by using engineering thinking, and examine the possibility of the development and change of ethnic minority traditional games caused by the similarities and differences between the social, economic, scientific and technological, natural and original ecological environment .To predict the adaptability of the new cultural and ecological environment, of course, all of these should follow the development law to do a systematic analysis, we will get the optimal path of the inheritance and development of traditional ethnic minority games, which will guide the development of traditional ethnic minority games in the future.

(3) Rationality of the Inheritance and Development Path of Traditional Ethnic Games

The rationality of the path of inheritance and development of traditional ethnic minority games should be considered. The rationality of the path is to consider the possibility of the implementation .The rationality of the path is based on the objective consideration of reality or the assumption of "Utopia", in the ideal state, we can pass on the traditional games of ethnic minorities as a way of curriculum development in kindergartens and primary and secondary schools. Although we are trying to use this method again at present, in the actual operation process, if we carry on the inheritance of this way, what conditions do we have and what conditions do we need. It is an important consideration whether the path is reasonable or not, whether the conditions that is not available can be achieved through certain efforts, as well as the evaluation of the possible inheritance effect. Secondly, if the path is feasible, we need to consider the rationality of the value of the inheritance and development of traditional ethnic minority games, if the path of inheritance and development of traditional ethnic minority games is reasonable, the value of the existence of traditional ethnic minority games inherited, and if the ecological and cultural environment of traditional ethnic minority games under the influence of social, economic, technological and other development has been established With the development of the times, it is necessary for us to imitate the cultural ecological environment of the traditional games of ethnic minorities, to maintain the inheritance and development of the traditional games of ethnic minorities, or to gradually transform the traditional games with the changes of the traditional cultural ecological environment of ethnic minorities to adapt to the changes of the changing cultural ecosystem until the ethnic minorities. With the increasing exchange and integration of ethnic Han and other ethnic groups, until the trace of the traditional game of ethnic minorities becomes less and less, it becomes a game of ethnic integration. Although anthropology and sociology are also paying attention to and deeply studying this issue, we should think deeply about the inheritance and development value of traditional ethnic games.

2.3.2 Implementation Path of Inheritance and Development of Traditional Ethnic Games

The path of inheritance and development of traditional ethnic minority games in the design stage can have a variety of assumptions. We can demonstrate and select the best scheme. But whether the path is operational or through the test of practice depends on the implementation of the path of inheritance and development of traditional ethnic minority games. The implementation of the path is a multi-faceted process involving organization, system, toy and management.

(1) Organizational Construction in The Process of Inheriting and Developing Traditional Ethnic Games

The inheritance and development of traditional ethnic minority games are carried out through multi-party division of labor and cooperation. In order to ensure the continuity and consistency of the inheritance of ethnic minority games, reasonably allocate and use resources, and correctly handle various relationships, the engineering activities of ethnic minority traditional games must be carried out in the name and form of the organization. In modern social life, organization is a social group that people organize according to a certain purpose, task and form. Organization is not only the cell and basic unit of society, but also the foundation of society. From the perspective of management, organization refers to such a social entity, which has a clear goal orientation and well-designed structure. The activity system of consciousness coordination keeps close contact with the external environment at the same time. Organization construction is not only the premise of management, but also an important means of management, and an important guarantee for the realization of management functions. In order to truly let the traditional games of ethnic minorities be inherited and developed, reasonable organization construction is a necessary prerequisite. If only one or a few people do this work, there will be content such as inheritance is not lasting, content loss, etc. If a reasonable organization can be established, the division of labor within the organization is clear, and each plays its own role, which is conducive to the good cooperation of the organization and distribution of personnel, so as to construct. More reasonable organizational structure and institutions, to achieve organizational optimization goals.

(2) System Formulation in The Process of Carrying Out the Inheritance and Development Path

of Traditional Ethnic Games

The so-called system is the work rules or action rules that everyone is required to abide by. It also refers to the laws and regulations, customs and other norms or certain specifications formed under certain historical conditions. In different industries, different departments, different posts have their own specific work standards, the purpose of which is to achieve the expected objectives as planned and as required. In the process of inheritance and development of traditional ethnic minority games, relevant rules and regulations should be formulated to guarantee the inheritance and development of traditional ethnic minority games and ensure the operation of organizations. System is the adhesive of organization. Organization must act in accordance with rules and regulations. Organization depends on rules and regulations to operate. A good system can not only mobilize various positive factors in the development process of traditional ethnic minority games, but also ensure the effective inheritance and development of traditional ethnic minority games, and prevent the loss and loss of traditional ethnic minority games. How to formulate the system and regulations that can mobilize all aspects of positive factors and carry out the inheritance and development of traditional ethnic minority games in an orderly, efficient and smooth way has become an important part of the implementation of engineering thinking.

(3) Management of Inheritance and Development of Traditional Ethnic Games

In the process of inheritance and development of traditional ethnic minority games, if they are allowed to develop in a natural and disordered way, they will face many misunderstandings in development [8]. The so-called management is to collect and sort out the traditional ethnic minority games, monitor the environmental environment on which the traditional ethnic minority games rely, and understand the play methods of various toys and toys used in the traditional ethnic minority games, As well as the registration of the inheritors of the intangible culture, such as the traditional games of ethnic minorities, so that the existence of the non text carriers of the traditional games of ethnic minorities can be changed into the existence of words and influence materials. The modern management of the traditional games of ethnic minorities can be carried out, and the basic elements of the traditional games of ethnic minorities can be connected and interacted with each other. In order to form a unity with optimized structure, and make the functions of various elements and the overall functions of the traditional games of ethnic minorities fully play out, and lead to the common goal that is the integrity and ecological preservation of the traditional games of ethnic minorities. Make the relationship between the inheritance and development of traditional ethnic minority games orderly.

2.3.3 The Stage of Inheriting and Achieving the Development Goals of Traditional Ethnic Games

The inheritance and development of the traditional ethnic minority games, through the design, selection and implementation of the inheritance path, the number and effect of the final inheritance of the traditional ethnic minority games, we need to regularly evaluate the inherited traditional ethnic minority games. In order to investigate the impact of the social, political and economic development as well as the arrival of the information age on the traditional games of ethnic minorities, we should establish an evaluation index system based on some anthropological related theories to investigate the inheritance and development of ethnic minorities. Only by regularly evaluating the inheritance and development of traditional games of ethnic minorities, can we adjust ethnic minorities in time. The deficiencies in the process of inheritance and development, timely adjustment of strategies, so that our traditional game treasures of ethnic minorities will not be lost.

3. Conclusion

All above is based on the assumption of a development strategy for the inheritance and development of traditional ethnic minority games. The assumption in an ideal state needs to be supported by specific actions in a state of relief, so as to prove whether it has the desired effect. In addition, it needs to carry out multiple demonstrations before the actual implementation. It expects that inheritance and development of traditional ethnic minority games to be smoothly and

effectively, and expecting. The flower of ethnic minorities game can bloom for a long time.

Acknowledgements

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