

The Research on Manufacturing Enterprise Organizational Innovation Path Forming Influence Factors

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Abstract: In order to recognize and evaluate Manufacturing enterprise organizational innovation path forming influence factors, this paper constructs the theatrical model according to our nation high-end equipment manufacture enterprise organizational innovation path forming character and collect asking paper information. Then use exploratory factor analysis and confirmatory factor analysis methods filter the factors and verify the theatrical model correctness. The final answer shows: influence factors include organization resource, organization environment, organization ability, organization behavior.

1. Introduction

The research history of organizational innovation path influence factors is lag behind than other academic field, the main reasons include: the analysis method is too signalize, pay too much attention to the finical index, don't combine our nation reality [1]. We shouldn't analysis Manufacturing enterprise organizational innovation path influence factors from single perspective for the enterprise specialize. So how to filter Manufacturing enterprise organizational innovation path influence factors and evaluate it's weights is a urgent issue which need to be considered.

2. Theatrical Structure

Manufacturing enterprise organizational innovation path forming need main body to complete. Organization ability can accelerate organizational innovation path forming results [2]. The organization ability can integrate organization resource and optimize resource efficiency. The organization environment also play an important role in the path forming. Organization environment include enterprise inside environment and outside environment. For the environment elements are hard to recognize, so the organization environment factor can impact innovation performance significantly. The forming of innovation path also need enough resource to support. The organization innovation process is to integrate and utilize all the resource in the organization resource [3]. The success of the organization innovation is dependent on resource quality and quantity. For HEM enterprise, no matter the inner resource or outside resource, those factors are the

basic platform of the organization innovation. Finally, the organizational innovation path forming also need organization behavior to accelerate. Manufacturing enterprise behavior include technology innovation, institution innovation, structure innovation and process innovation. The organization innovation path mode is different which under different organization behavior elements.

3. Data Analysis

This paper make ‘Manufacturing enterprise organizational innovation path forming influence factors asking paper’ according to relate documents and other scholar research achievement. There are 39 influence factors measurement indexes, and the investigate area include aerospace industry, aviation industry, high-speed railway industry and ocean engineering industry. We send 300 asking papers totally, and collect 267 back. In order to gather efficiency information, the main investigate item is government manager, Manufacturing enterprise innovation accelerate stuff, relate area expert.

4. Influence Factors Efa

In order to verify all the factors, we need to filter it from large amount of information. This paper use KMO and Bartlett’s method to verify all the factors normal distribution level. Then we use SPSS16.0 tool box to conclude EFA verification results. The EFA results illustrate that the four main principle factors can stand for 92.718% of all the factors.

5. Conclusions

Manufacturing enterprise is the key industry for our nation industry. To analysis and evaluate its organizational innovation path forming influence factors is not only good for making decision, but also good for enterprise clarify its advantage, then improve organizational innovation performance. This paper use EFA and CFA method to filter and evaluate influence factors based on construct influence factors index system. The final answer shows: The integration of CFA and EFA method to filter and evaluate organizational innovation path forming influence factors have theatrical and realistic meaning.

Theatrical meaning include:

(1) The integration of CFA and EFA can combine different method advantage, make single evaluate method loopholes. Also can reflect research issue information greatly.

(2) The integration of CFA and EFA can minimize measure index dimension, and proceed different index non-liner relationship.

Realistic meaning include:

(1) It’s a complicate engineering to improve our nation enterprise organizational innovation ability, we shouldn’t take single elements into consideration, but need to balance all the aspect of factors relations.

(2) Through filter and evaluate the influence factors indexes, we can conclude four main factors: organization ability, organization environment, organization behavior and organization resource, the forming of the organizational innovation path is the process of integrate resource, adapt for environment, proceed organization behavior and optimize its ability.

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