The Development of Productivity Management and Decision Support Models for Manufacture Industry ─ A Case Study of Purchasing Systems

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ABSTRACT

In recent years with the tactical promotion, the purchasing department were gradually to attach importance to the company, so it is very important to promote the accomplishment of the purchasing department under competitive circumstances and quick changes in technics. This research aims to probe into the manufacture industry of purchasing system. From the viewpoint of productivity, to aim at analysis achievement and set up the decision support model to suit them. The research will hope to find a suitable productivity model for manufacture purchasing system, to discuss how to make use of the model to the evaluation ,analysis and improvement of productivity ,at last ,by further discussion and research ,to the importance and purpose of analysis decisions in productivity , to develop purchasing system of productivity analysis decision models, in the basic viewpoint of productivity, to proceed the discussion and comparison of analysis decisions. To support and be the basis of manufacturing purchase decisions. Finally, this research take all purchasing department in a Hi-tech industry company for research object, then at the same time, the methodology of Analytical Hierachy Process (AHP) as well as Data Envelopment Analysis (DEA) will be applied for weighting, evaluation and improvement process; To build a productivity evaluation model for all manufacturing industries.

Keywords : Manufacturing Industry ; Purchasing Systems ; Hi-Tech Industry ; Productivity Management ; Analytical Hierachy Process ; Data Envelopment Analysis ; Decision Support Model
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