

Research on Project Schedule Planning and Visual Control based on PBS-WBS-OBS

Student: LIIN, XIU-LING

Advisor: Dr. Chi-Yang

Institute of Industrial Engineering and Management Yuan-Ze University

ABSTRACT

The research and development of complex systems often involves knowledge and technologies in various professional fields. With limited schedule and resources, how to have a systematic and complete planning, and simple and effective management and control of the project schedule, on schedule and quality as budget Achieving project tasks is the most important responsibility of a project manager.

The purpose of this research is to establish a model framework that can be effectively used in project schedule planning and management. With the PBS-WBS-OBS matrix as the core foundation, the critical path method is used to predict possible risk scenarios and conduct Microsoft Project. Project schedule planning, and comprehensive visual control through integrated analysis software tools such as Power BI and Excel, so that potential problems can be discovered in advance and early warnings are provided, so that managers can quickly grasp the situation and make quick response decisions.

Keyword: Product Breakdown Structure 、 Work Breakdown Structure 、
Organizational Breakdown Structure 、 Time Process Management 、 Critical Path
Method 、 Visualization