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1.5.10 Comparing Between Actual Work and Master Plan Cost
1.5.11 Performance Evaluation; 1.6 Project Manager Skill; Quiz; 2 Project Economic Analysis; 2.1 Introduction; 2.2 Project Cash Flow; 2.2.1 Depreciation Methods; 2.2.1.1 Straight-Line Method; 2.2.1.2 Declining-Balance Method; 2.2.1.3 Sum-of-the-Year-Digits; 2.2.1.4 Sinking-Fund Method; 2.2.1.5 Service-Out Method; 2.2.2 Method of Net Present Value (NPV); 2.2.2.1 Inflation Rate; 2.2.3 Minimum Internal Rate of Return (MIRR); 2.2.4 Payout Method; 2.3 Economic Risk Assessment; 2.3.1 Probability Theory
2.3.2 Probability Distribution of Variables
2.3.2.1 Normal Distribution; 2.3.2.2 Log Normal Distribution; 2.3.2.3 Binominal Distribution; 2.3.2.4 Poisson Distribution; 2.3.2.5 Exponential Distribution; 2.3.2.6 Weibull Distribution (Rayleigh Distribution); 2.3.2.7 Gamma Distribution; 2.3.2.8 Logistic Distribution; 2.3.2.9 Extreme Value (Gumbel Distribution); 2.3.2.10 Pareto Distribution; 2.3.3 Distribution for Uncertainty Parameters; 2.3.3.1 Triangular Distribution; 2.3.3.2 Uniform Distribution; 2.3.4 Choose the Appropriate Probability Distribution; 2.3.4.1 Chai Square Method
2.3.4.2 Kolmograv-Smirnov (K-S)
2.4 Decision Tree; 2.5 Monte-Carlo Simulation Technique; 2.6 Risk Adjusted Value (RAV); 3 Pitfalls in Time Schedule Planning; 3.1 Introduction; 3.1.1 Plan Single Point of Accountability (SPA); 3.1.2 Starting the Plan; 3.1.3 Work Breakdown Structure (WBS); 3.2 Responsibilities of the Team; 3.3 Expected Activity Time Period; 3.4 Calculate the Activity Time Period; 3.5 Time Schedule Preparation; 3.5.1 Gantt Chart; 3.5.2 Arrow Diagram Method (ADM); 3.5.3 Precedence Diagram Method (PDM); 3.5.4 Critical Path Method (CPM)
3.5.5 Program Evaluation and Review Technique (PERT)
