



Project Risk Management

1. Introduction

- 1.1. Projects as Systems
- 1.2. Managing a Project in Uncertainty
- 1.3. Understanding Project Complexity
- 1.4. New Guidelines for Project Management
- 1.5. Systems Based Project Management Methodology

2. Fundamentals

- 2.1. Risk and Risk Management Principles
 - 2.1.1. Terminology
 - 2.1.2. Facets of Risk
 - 2.1.3. Probability
 - 2.1.4. Probabilistic Determinations of Risk
 - 2.1.5. Risk Matrices
 - 2.1.6. Qualitative and quantitative determinations of risk
 - 2.1.7. Risk Evaluation Criteria
 - 2.1.8. Overview of the Risk Identification and Assessment Process
 - 2.1.9. Risk Mitigation
 - 2.1.10. Risk Management Methodology
- 2.2. Project and Project Portfolio Management
 - 2.2.1. Definitions
 - 2.2.2. Programme and Project Capacity
 - 2.2.3. Relationship Between Programmes, Portfolios and Projects
 - 2.2.4. Portfolio and Programme Lifecycle
 - 2.2.5. Project Management Lifecycle
 - 2.2.6. Project Management Processes
 - 2.2.7. Project Management Support Functions
 - 2.2.8. Project Closure
 - 2.2.9. Project Management Overview
 - 2.2.10. Project Success Factors
- 2.3. Principles of Project Risk Management
 - 2.3.1. Value Creation and Uncertainty
 - 2.3.2. Riskiness of Projects
 - 2.3.3. Implications of Project Risk
 - 2.3.4. Integrating Risk Management in Project Management
 - 2.3.5. Main Risk Areas in Projects
 - 2.3.6. Generic Project Risk Factors
 - 2.3.7. Project Risk Management Requirements
 - 2.3.8. Project Manager's Responsibilities



3. The Risk Management Process

3.1. Identifying Project Risks

- 3.1.1. Contextualising the Project
- 3.1.2. Different Perspectives of a Project
- 3.1.3. Risk Identification Process
- 3.1.4. Risk Breakdown Schedule
- 3.1.5. Types of Project Threats
 - 3.1.5.1. Generic
 - 3.1.5.2. Environmental
 - 3.1.5.3. Technical
 - 3.1.5.4. Safety
- 3.1.6. Risk Identification Tools and Techniques
 - 3.1.6.1. Hazard Studies
 - 3.1.6.2. Fault and Event Trees

3.2. Risk Analysis

- 3.2.1. Threats and Events
- 3.2.2. Impact on Project

3.3. Risk Evaluation and Response

- 3.3.1. Evaluating Project Risks
- 3.3.2. Risk Evaluation Options
- 3.3.3. Project Risk Modelling
- 3.3.4. Risk Response
 - 3.3.4.1. Simple Risk Decision Matrix
 - 3.3.4.2. Decision-making Elements

3.4. Risk Management Plans

- 3.4.1. Purpose and Process
- 3.4.2. Risk Management Strategies
- 3.4.3. Economic Appraisal
- 3.4.4. Risk Register
- 3.4.5. Content of a Risk Management Plan
- 3.4.6. Risk Management Priorities
- 3.4.7. Risk Management Plan Guidelines

3.5. Risk Management and Control

- 3.5.1. Implementation of Risk Management
- 3.5.2. Risk Information Flows
- 3.5.3. Risk Exposure Versus Time
- 3.5.4. Risk Responsibility Matrix



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4. Case Studies

5. Appendices

- 5.1. Risk Engineering
- 5.2. Bibliography and References
- 5.3. Templates
- 5.4. Project Risk Management Checklist