	Risk Management Plan
	Initial Release:1.0Date:January 1997
What is Project Risk?	A risk is any factor that may potentially interfere with successful completion of the project. A risk is not a problem a problem has already occurred; a risk is the recognition that a problem might occur. By recognizing potential problems, the project manager can attempt to avoid a problem through proper actions.
Risk Management Process	<ul> <li>The procedure that the team will use to manage project risks is defined in the planning stage, documented in the project plan, and then executed throughout the life of the project. Risk management deals with the following risk phases: <ul> <li>Risk identification</li> <li>Risk analysis and quantification</li> <li>Risk mitigation planning</li> <li>Risk response</li> </ul> </li> <li>The Risk Management Plan documents the procedures used to manage risk throughout the project. In addition to documenting the results of the risk identification and analysis phases, it must cover who is responsible for managing various areas of risk, how risks will be tracked throughout the life cycle, how contingency plans will be implemented, and how project reserves will be allocated to handle risk.</li> <li>Project risks are identified and carefully managed throughout the life of the project. It is particularly important in the planning stage to document risks and identify reserves that have been applied to the risks.</li> <li>There are various areas that can affect a project, including: <ul> <li>The elationships between team members</li> <li>How well the project fits the culture of the enterprise</li> <li>How well the project fits the culture of the enterprise</li> <li>How great a change will result from the project.</li> </ul> </li> <li>Risk identification consists of determining risks that are likely to affect the project and documenting the characteristics of those risks. No attempt should be made to identify all possible risks that might affect the project, but anything likely to occur should be included in the analysis.</li> </ul>

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Responsibility for Risk Identification	Risk identification is the responsibility of all members of the project team project manager is responsible for tracking risks and for developing contingency plans that address the risks identified by the team. Sometime risk identification "brainstorming" session can help in the initial identific process. Such meetings help team members understand various perspect and can help the team better understand the "big picture." Risk identification begins in the early planning phase of the project. A Ri Management Worksheet (shown at the end of this section) is started durin planning phase. Then, as scheduling, budgeting, and resource planning of the worksheet is updated to reflect further risks identified in the planning At project startup, the Risk Management Worksheet is reviewed again, at new risks are added to it. As the project progresses, members of the team identify new risk areas that are added to the Risk Management Worksheet	es a sation ives isk ng the ccur, stage. nd any
Documenting Risks	during the project, risks identified earlier may be removed. Risks are documented so that contingency measures can be taken to mitig their effects. Risks to both the internal and external aspects of the project be tracked. Internal risks are those items the project team can directly cor (e.g., staffing), and external risks are those events that happen outside the influence of the project team (e.g., legislative action).	should ntrol

# **Project Management Planning**

	<b>Risk Management Plan</b>				
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Risk Management Worksheet Instructions	categories/events should be customize	resent an exhaustive list of risks. The risk			
	Loss Hours:				
	Indicate the expected increase in hou occurs.	urs that will occur if the risk event			
	Probability:				
	Use the probability field to quantify Use a decimal value from 0 to 1 (e.g	the chance of the event taking place. g., .70).			
	Risk Hours:				
	This field represents the estimated risk for this event. The field is calculated by multiplying the loss and the probability fields.				
	Previous Risk Hours:				
	A difference between this value and	k hours reported in the previous period. the current risk hours indicates a to alert management that a change has			
	Contingency Plan:				
	measures that could minimize the ef shown in the next figure are represen	ntative of common contingency list. The project manager should provide			
	Comments:				
		ed to document items such as a change ous period, management actions needed tive and contingency plans.			
	Total:				

The sum total of values in column four is the total risk hours for the project and should be reported in the project plan.

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When does Risk Identification Occur?	Risk identification is a recurring event, it is no aside. The risk identification process begins in where initial risk areas are identified. During mitigation measures are identified and docum allocation, scheduling, and budgeting phases, documented. Risk identification, management, and resoluti throughout the life of the project. New risks a matures and external and internal situations ch	n the project initia the planning stag iented. During the associated reserve on continue after re developed as th	ition stage, e, risks and e resource e planning is also project initiation
	When probability of a risk increases, or when project manager must deal with a real probler the project manager and project team develop of the problem. This replanning results in bud for completion of the project.	n, replanning occu strategies that ass	urs. At this point, sess the impact
Contingency Planning	Contingency plans are developed as a result of Contingency plans are pre-defined action plan identified risks actually occur. If a problem ac plan must be implemented and reserves must As a guideline, contingency plans are develop with a project. For large projects the top five a may be actively tracked. To properly implem required where dollars and/or time are held by execution of a contingency plan. Such conting appropriate sections of planning. Without ma manager is forced to go back for additional tin becomes a problem. It is far more desirable to problems can be dealt with from within the or project. There are some situations where nothing can deal with a risk. In this case, the project must probability of the event occurring is minimize project manager must replan the project and it	ns that can be imp ctually occurs, the be allocated. Deed for the top five risks of each majo nent a plan, a reser y a project manage gency reserves are initaining a reserv me or dollars for e o maintain a level riginal budget and realistically be do be managed in su ed. If the event do	lemented if contingency e risks associated or sub-system ve is usually er to apply to the e discussed in the e, the project every risk as it of reserve where schedule of the ne to prevent or ch a way that the es occur, the

# **Project Management Planning**

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Forms	Templates & Sample Forms.	his section is included in Appendix B: ted in the Project Plan template in Appendix B:

Form: PM-05 Risk Management Worksheet - Sample

Risk Category /Event	Loss Hours	Probability	Risk Hours	Prev. Risk Hours	Preventive Measures	Contingency Measures	Comments
PERSONNEL							
Lack of knowledge in this hw/sw					1,2		
Insufficient resources available					13		
EQUIPMENT							
Delivery date slip						3, 4	
Insufficient configuration					5,6	3, 4	
Unproven hardware					27, 17		
CUSTOMER							
Infighting					7	8	
Unacceptable working environment					9	8	
Lack of <our> knowledge</our>					1		
Visibility to high levels at customer and <our> mgt.</our>					10		

## **Project Management Planning**

### **Risk Management Plan**

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Risk Category /Event	Loss Hours	Probability	Risk Hours	Prev. Risk Hours	Preventive Measures	Contingency Measures	Comments
Poor project definition by customer					11, 12		
Unreasonable deadline					13	28	
Third party involvement					14, 15		
Customer availability					7, 16	29	
CUSTOMER							
Unproven products					17, .2	30	
Third party S/W					1, 15, 19	30	
Complex application					1,2		
LOGISTICS							
Multiple customer sites					20, 21, 22		
Physical separation of team and customer					20, 21, 22, 23		
ORGANIZATION			ł	ł		ł	ł
Team of 5-10					24		
Team > 10					24, 25		
Customer people on team					26		
OTHER							
Total Risk Hours							

### Form: PM-05 Risk Management Worksheet - Sample

### **Risk Management Plan**

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#### **Suggested Preventive and Contingency Measures**

- 1. Provide appropriate training.
- 2. Hire trained specialists.
- 3. Install temporary hardware.
- 4. Utilize internal hardware temporarily.
- 5. Purchase additional equipment.
- 6. Implement product functionality in a phased manner.
- 7. Get agreement on who has decision authority; designate customer project coordinator.
- 8. Locate project team in <our> offices.
- 9. Negotiate better environment.
- 10. Ensure that all the resources are provided.
- 11. Suggest/sell Functional Specifications before development.
- 12. Unilaterally develop Functional Specifications.
- 13. Adjust deadline and get <our>/customer buy-off.
- 14. Do not commit to third party performance.
- 15. Get third party commitment at least equal to (if not more than) <our> commitment.
- 16. Get customer commitment to participate in the project.
- 17. Increase estimates for the related tasks.
- 18. Do not commit to response time unless absolutely necessary and then only if a study is done by knowledgeable persons.
- 19. Establish access to product support personnel.
- 20. Hold regular meetings with customer.
- 21. Maintain constant written and oral communication with remote personnel.
- 22. Visit remote sites as needed.
- 23. Demonstrate incremental results.
- 24. Divide staff into teams and assign team leaders.
- 25. Dedicate <our> management resources.
- 26. Establish final authority of <our> project manager.
- 27. Use proven hardware for development if possible.
- 28. Reduce functionality to meet deadline.
- 29. Document <our> assumptions and understandings and get Customer's signoff before investing substantial resources.
- 30. Design an alternate (contingent) solution strategy.