

Applied software risk management

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Whatever be the level of management you are responsible, you will find risk management a key to success. An integrated approach is adopted in this workshop, addressing the risk management issue at The Enterprise Level, The Project Level and The Engineering Level. The workshop is ideally suited to the following decision makers in IT organizations.

- ❖ Project Managers
- ❖ Project Leads
- ❖ Quality Managers
- ❖ SEPG Members

Key Takeaways

- ❖ The training workshop will make the participants appreciate the fundamental virtues of "risk management".
- ❖ The exercises will enable the participants discover, by doing, how risk management plays the traditional role of a cornerstone of project management and goes beyond to trigger innovation in engineering management.
- ❖ The workshop re-establishes the link between estimation methods and risk identification.
- ❖ The participants will get tips to build a risk culture in the organization.
- ❖ The risk management methods covered in the training workshop will aspiring "risk managers" to play an effective role in making the organization seize opportunities and grow.

Workshop Contents

Day I

1. RISK CULTURE

- ❖ Definition of Risk
- ❖ Risk: Problem or Opportunity?
- ❖ Constraints, Issues, Defects and Risks
- ❖ Risk Factors
- ❖ Risk Terms
- ❖ Five Phases of Risk Culture
- ❖ Expressing Risk Using Risk Exposure Number
- ❖ Knowledge and Risk
- ❖ Capability and Risk



2. WHAT IS RISK MANAGEMENT?

- ❖ Benefits of Risk Management
- ❖ What is Risk Management
- ❖ Risk Management Strategy
- ❖ Risk Management Cycle
- ❖ Risk Management and Project Management
- ❖ Risk Management and Process improvement
- ❖ Risk Management and Growth

3. RISK CLASSIFICATION SYSTEM

- ❖ Risk Levels
- ❖ Risk Origin
- ❖ Partition of Risks
- ❖ Categories of internal risks
- ❖ Engineering Risks
- ❖ Risk Dependencies
- ❖ Risk Severity
- ❖ Risk Taxonomy
- ❖ Risk Metrics

4. RISK IDENTIFICATION

- ❖ Out of the Box Thinking
- ❖ Analogy
- ❖ Risk Checklist
- ❖ Risk Taxonomy Based Questionnaire
- ❖ Brainstorming
- ❖ Risk Discovery
- ❖ Survey
- ❖ Assessment Form
- ❖ Metrics Based Risk Identification

5. RISK EVALUATION

- ❖ Risk Measurement
- ❖ Indication is different from measurement
- ❖ Early discovery
- ❖ Warning system
- ❖ Metrics, Limits & Variance
- ❖ Risk Tails, Fix Probabilities
- ❖ Impact of tails
- ❖ Risk radar, risk maps
- ❖ Risk attributes and process metrics
- ❖ Risk dash board
- ❖ Mining the risk database
- ❖ Extracting risk signals from process metrics
- ❖ Intuitive methods

Day II

6. QUALITATIVE RISK ANALYSIS

- ❖ Risk Matrix
- ❖ Top 10 Risks
- ❖ Analysis Tools
- ❖ Risk Resolution
- ❖ Risk Plans
- ❖ Delphi
- ❖ Scenarios
- ❖ Simulation
- ❖ Risk database
- ❖ Mind Mapping
- ❖ Rich Picture
- ❖ Six Hat Techniques
- ❖ Casual Analysis

7. QUANTITATIVE RISK ANALYSIS

- ❖ The Fourth Dimension
- ❖ Turning risks into advantages
- ❖ Representing project risk
- ❖ Scope risk
- ❖ Risk line from Wideband Delphi
- ❖ WBS scenario building
- ❖ The critical path risk
- ❖ PERT
- ❖ Simulation of schedule risk
- ❖ Why should we model risks?
- ❖ SWOT model
- ❖ Risk environment model
- ❖ Risk spatial model
- ❖ Earned value model
- ❖ Estimation models for risk analysis KANO model
- ❖ Decision tree

8. RISK RESPONSE PLAN

- ❖ Quick Solutions
- ❖ Short Term Plans
- ❖ Long Term Plans
- ❖ Strategic Plan
- ❖ Constraint Management Plan
- ❖ Risk Escalation
- ❖ Mitigation Plan
- ❖ Contingency Plan
- ❖ Risk Thresholds Development
- ❖ Budget Considerations

9. RISK TRACKING

- ❖ Project Risk Response Audits
- ❖ Periodic Risk Reviews
- ❖ Earned Value Tracking
- ❖ Technical Performance Measurement
- ❖ Workaround Plans
- ❖ Corrective Actions
- ❖ Project Change Requests
- ❖ Updates To The Risk Response Plan
- ❖ Update Risk Database
- ❖ Updates To The Risk Identification Checklists

10. RISK REPORTS, COMMUNICATION AND LESSONS LEARNED

- ❖ Internal reporting
- ❖ External Reporting
- ❖ Risk Description
- ❖ Risk Analysis Report
- ❖ Feedback to Risk Owners
- ❖ Feed Forward to Stakeholders
- ❖ Risk Escalation
- ❖ Query Report from Risk Database
- ❖ Improvements Report
- ❖ Lessons Learned
- ❖ Best Practices Repository



About QT&T

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Incorporated in Singapore, QT&T Consulting comprises a young and dynamic team with a passion to create excellence by sharing knowledge primarily focused on Business Strategy, Change Management and Process Improvements. The mission is to make a mark worldwide by bringing out the 'best in people, on the basis that each individual has an latent pool of 'experiential' knowledge that if harnessed properly could result in breakthrough improvements at individual & corporate performance.

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