

Requirement Engineering Workshop

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Course description

This course introduces the student to requirements management and requirements development concepts. The Business Analyst will gain in-depth insights into the responsibilities and processes of requirements management. Beginning with an overview of project phases and software development lifecycle, the audience is taken through the essential process of requirements management such as requirements documentation, change management, requirements traceability, and the role of the BA in the process.

In the requirements development process, students gain understanding of requirement levels and types, requirements flow, characteristics of good requirements, writing good requirements, and requirements elicitation techniques. In a combined lecture and workshop format, students will study these concepts and techniques. They will apply them by creating the relevant artifacts, with emphasis on customizing the approach and artifacts to fit their organization's needs.

Course Objective:

- To build a firm foundation for defining, interpreting, and verifying requirements.
- Develop skills to enable you to:
 - Bound the scope of your product and manage to that scope
 - Collect the information needed to write good requirements
 - Get buy-in from all stakeholders before the requirement was begin
 - Implement a straight-forward process for obtaining and documenting information critical throughout you product's life-cycle
 - Use rationale to clarify each requirement so that it is understood just one way and you have a history of why it exist for future change impact assessments and for maintenance and verification
 - Use attributes such as verification method, allocation, and traceability to improve your requirement set
 - Write different types of requirements
 - Validate your requirements as they are written to avoid submitting a bad document for review, causing delay while problems are fixed or causing design problems because the problems are not fixed in a timely fashion.
 - Determine which attributes are most beneficial to your projects and products
 - Create a new, or improve existing, requirement management process

Instructor

Panitta Kaewkallaya (CSPM)

Language

Thai

Course fee

16,000 Baht (Excluded VAT 7%)

Duration

3 days
(approximately about 6 - 8 hrs).

Date & Time

24-26 March 2010 , 9.30-16.30

Venue

Elite Meeting Room1-2, 10th
Floor Amarin Tower, Ploenchit
Rd.

- Ensure requirement validation and continuous process improvement
- Manage change and collect metric
- **Prerequisites:** A general understanding of the software development lifecycle (SDLC) is beneficial, but not necessary.
- **Intended Audience:**
 - This course is for Business Analysts, Project Managers, and Business Staff involved in Application Development projects.
- **Benefits of Attendance:** Upon completion of this course, students will be able to:
 - Explain the process of managing requirements.
 - Perform the various elicitation techniques used in gathering and documenting requirements.
 - Understand the content of the artifacts created in gathering and documenting requirements.
 - Produce relevant artifacts needed for documenting requirements.
 - Translate business requirements into appropriate technical specifications.

SUCCESSFUL COURSE COMPLETION

Course Outlines Day one

- 1. Introduction**
 - Important of Requirement Management
 - Business Analyst as part of the project team
 - Industry related roles and knowledge areas for Business Analysts
 - Workshop: playing game to experience requirement management (approx 60 mins)
- 2. Project Overview**
 - Project Phases
 - Software Development Life Cycle (SDLC)
 - Software Project Artifacts
- 3. Introduction to Requirement Engineering**
 - Requirements engineering
 - Terms and Definitions
 - What are good Requirements Engineering practices?
- 4. Introduction to Requirements Management**
 - Requirements Management Definition
 - Benefits of a quality RM Process
 - Risks of a poor RM Process
 - Components of the RM Process
 - Requirement Change Management Process
 - Requirements Traceability
 - The BA role in Requirements Management Activities (IIBA® View)¹
- 5. Requirement Levels and Types**

- The purpose of Requirements
- Requirements Definition
- Requirement Levels
- Requirement Types
- Characteristics of Quality Requirements
- 6. Requirements Management Artifacts**
 - Requirements Management Templates
 - Scope and Vision Documents
 - Requirements Plan
- 7. Defining the Product Scope**
 - Enterprise Analysis Overview
 - What Scope Is
 - The Business Case
- 8. Requirements Planning**
 - The Requirements Communications Plan
 - Requirements Conflicts
 - The Requirements Package
 - The Requirements Charter
 - The Requirements Team
 - Stakeholder Types
 - Identifying Stakeholders
 - Analyzing Stakeholders for Requirements
 - Workshop: Course Registration System Problem Statement (approx 30 mins)

Day Two

- 9. Requirements Elicitation**
 - Techniques
 - i. Brainstorming
 - ii. Document Analysis
 - iii. Focus Group
 - iv. Interface Analysis
 - v. Interviews
 - vi. Observation
 - vii. Prototyping
 - viii. Requirement Workshops
 - ix. Survey/Questionnaire
 - Workshop: Role Playing
- 10. Requirement Analysis**
 - Prioritize Requirements
 - Organize Requirements
 - Specify and Model Requirements
 - Define Assumptions and Constraints
 - Techniques
 - i. Business Rules Analysis
 - ii. Organization Modeling
 - iii. Process Modeling
 - iv. Data Dictionary and Glossary
 - v. Data Flow Diagrams
 - vi. Data Modeling
 - vii. Functional Decomposition
 - viii. Interface Analysis
 - ix. Metrics and Key Performance Indicators
 - x. Non-functional Requirements Analysis
 - xi. Scenarios and Use Cases
 - xii. Sequence Diagrams
 - xiii. State Diagrams
 - Workshop: Course Registration System (con't) (approx 30 mins)

Day Three

11. Requirements Specification

- Document User and Software Requirements
- Writing Functional and Non-Functional Requirements
- Writing Assumptions and Constraints
- Identify and Document External Interfaces
- Good Requirements Writing Practices
- Requirements Writing Pitfalls and Mistakes
- Workshop: Course Registration System (con't) (approx 30 mins)

12. Requirement Validation

- Communicate Requirements
- Validate Requirements
- Validate Solution
- Validation Techniques
 - i. Structured Walkthrough
 - ii. Acceptance and Evaluation Criteria Definition

13. Needed Soft Skills for Requirement Management

- Analytical Thinking and Problem Solving
- Behavioral Characteristics
- Business Knowledge
- Communication Skills
- Interaction Skills
- Software Applications

14. Other Topics

- Professional Development
 - i. Becoming a Business Analyst
 - ii. Business Analyst Careers
 - iii. Certified Business Analyst Professional™ (CBAP®)²

Payment Condition

All fee must be paid in full at least 7 days prior to the start of the class. A payment can be made via cheque or account transfer.

- Cheque should be made payable to **"Global Process Innovations(GPI) Asia, Co.,Ltd."**
- For the account transfer, deposit the amount to "Global Process Innovations(GPI) Asia, Co.,Ltd.", saving account number: 216-204667-7, Siam Commercial Bank, Pleonchit Center Sub Branch (Please fax the pay-in slip to +66-2-305-6694)

Remarks:

- The cancellation of the attendance shall be made in written form before the class starts. Or a charge of 40% of the fee shall be imposed for the notice of the cancellation less than 7 working days before the commencement date.
- GPI Asia reserves the right to cancel courses due to unforeseen circumstances.