

Effective Software Requirements Management



Facilitator:

Mr. Essam Zaitoun

Table of Content

1	PROGRAM VALUE	3
2	TARGET AUDIENCE	4
3	PROGRAM DESCRIPTION	5
4	PROGRAM LEADER	8
5	FEES AND LOGISTICS	11
6	CONTACT INFO	12
7	ENDORSED EDUCATION PROVIDER	13

1 PROGRAM VALUE

Poor requirements management is a major cause of project failure. Without proper requirements management, it will be hard to achieve the needed business value from any initiative. In this course, participants will learn how to handle requirements from the very beginning of a project through its completion. It addresses requirements activities needed, attributes, artifacts, as well as traceability and developing the requirements management plan. It also addresses the stakeholders as a key element in requirements management and discusses how to identify those who should be involved and the extent and type of involvement, as well as topics like requirements governance, scope management, and change.

At course completions trainees will be able to:

- Apply requirements management process using use cases.
- Define clear responsibilities of system analyst role in software organization.
- Customize Requirements Management Process and artefact to Develop (Vision document, Use Case Model, Supplementary specification, SRS and Requirements management plan).
- Applying requirements management techniques to define a clear statement of product requirements.
- Capture and documents requirements with use-case modelling techniques.
- Use requirements attribute and traceability to help manage scope and change throughout production lifecycle.
- Using requirements to derive on going design, test, and user documentation activity.

2 TARGET AUDIENCE

It is important for you to attend if you are:

- Project Managers
- Business Analyst.
- System Analyst.
- Developers.
- Quality Assurance Professionals
- Anyone involved in establishing a requirements management process in their organization.

3 PROGRAM DESCRIPTION

Understand Requirement Management fundamentals and use special technique to have a systematic approach for finding, documenting, organizing, and tracking a system's changing requirements in a project.

Understand RUP templates for requirement management such as Vision, Software

Requirement Specification (SRS), Glossary, supplementary specification, use-case Specification and more.

❖ Introduction to RMUC

- Effective Requirements Management
- What is a “Quality Product”?
- What Factors Contribute to Project Success?
- The High Cost of Requirement Errors
- What Is NOT in a Requirement?
- Requirements Management: Workflow, Roles, Artefact.

❖ Introduction to Use-Case Modeling

- What Is Use-Case Modelling?
- What Is a Use Case?
- Define Actors: Focus on the Roles
- Communicates-Association
- A Scenario Is a Use-Case Instance
- Use-Case Diagram
- Steps for Creating a Use-Case Model
- Where Do Use Cases Fit into the RM Process?

❖ Analyze the problem

- Problem Analysis
- Stakeholders: Definitions and analysis

- Business Models (Activity and State Diagram)
- Vision Document
- Glossary Document
- Write Requirement Management Plan
- ❖ **Understand stakeholder need**
 - What Are Sources for Requirements?
 - What Problems Might Be Encountered?
 - Expressing Stakeholder Requests
 - Techniques for Eliciting Stakeholder Requests
- ❖ **Define the system**
 - Capture the Software Requirements
 - Steps to Create a Use-Case Model
 - Outline Each Use Case
 - Flows of Events (Basic and Alternative)
 - Packages: Organize the Use-Case Model
- ❖ **Manage the scope**
 - Scope Management
 - Define the System Scope
 - Establish Requirements Baseline
 - Use Cases are Written and Implemented Iteratively
 - Prioritize the Use Cases
- ❖ **Refine the system**
 - Features Drive Software Requirements
 - How to Specify Functional Requirements?
 - What about Requirements NOT in Use Cases?
 - Detail the Basic Flow of Events
 - Preconditions and Post conditions
 - What about Non-functional Requirements?

- SRS package
- ❖ **Manage Changing Requirements**
 - Why Do Requirements Change?
 - Gain Control of Requirements
 - Metrics Help Manage Change
 - Why Use Requirements Traceability?
 - Determine Your Requirement Traceability Strategy
 - Impact Analysis by Traceability
- ❖ **Reviewing Requirements specification**
 - Qualities of Software requirement
 - Informal review
 - Formal review

4 PROGRAM LEADER

4.1 Mr. Essam Zaitoun, MSc. Software Engineering with consternation on Project Management

4.1.1 Summary

A Software Engineering Consultant, Experience in Software Engineering with Rational Technology. He has master degree in **Software Engineering with concentration on Project Management** at DePaul University.

Specialized for **deployment and administration for EPM** solution form Microsoft, he successfully implemented and customize EPM solution to many professional organization, such as:

- King Khalid University (Abha- KSA).
- Consolidated Constants for Engineering and Environment. (Amman- Jordan)
- Nilaya Company for Architectural Design (Amman- Jordan).
- King Abdulah Development and Design Bureau KADDB (Amman- Jordan)
- GANAMA Oil and Construction (deployment only)(Damascus- Syria)

Specialized in **Requirements Management** and Object Oriented Analysis & Design OOAD with UML.

Conducted training for numerous companies in and out Jordan with the following topics:

- Effective Software Requirements Management.
- Object Oriented Analysis and Design using UML 2.0.
- Software Development Lifecycle Using Rational Tools.

He **delivered professional services, training and workshops** to dozens of professional software engineering practitioners coming from diverse reputable organizations and Universities such as Zain, STS, UNRWA, Progress Soft,

Eskadenia , Beat, I horizon, Maktoob, FACT, King Khaled university, Free Zone corporation, Private Zarqa University, Hashemite University, Hussein Bin Talal University, KPMG (KSA), SBM (KSA).

4.1.2 Experience

- Implements and customize EPM solution from Microsoft.
- Provide training on Microsoft project professional and server 2007.
- Excellent knowledge of RUP principals and applicable methodologies and customization to a specific organization needs.
- Experienced knowledge of Requirements Management workflow based on RUP and IBM Rational RequisitePro for Requirements Management.
- Review project management documents for software projects (Project charter, Project Plan, SOW, Risk plan, communication plan and Quality Plan).
- Experienced in Rational Rose and Object Oriented Analysis and Design with UML.
- Instructed trainings courses for numerous universities personnel's, on Testing Concepts and Tools, Rational ClearQuest and Change Management concepts, and Rational Unified Process concepts.
- Microsoft Visual Studio .Net 2003 / 2005 VB.net C#.net
- Software Component Design and Development Using COM +.
- Microsoft SQL server 2000/2005
- Developing Microsoft ASP.NET 1.0 /2.0 Applications

4.1.3 Certificates

- IBM Certified Specialist - Rational Unified Process.
- IBM Certified Specialist - Requirements Management with Use Cases
- Microsoft Specialist: Managing Projects with Microsoft Project 2013
- Microsoft Specialist: Managing Project and Portfolios with Project Server 2013

4.1.4 Education

- Master Degree in Software engineering with consternation on project management, DePaul University with Excellent GPA rating.
- Bachelor Degree in Software engineering, Balqa University with Excellent GPA rating.



5 FEES AND LOGISTICS

5.1 Dates & Times

Training will have duration of **30 hours**, which will be distributed on 6 sessions, 5 hours per session (00:00 AM -00:00 PM).

5.2 Venue

Will be defined 10 days prior to the date of course.

5.3 Fees

Price per participant includes

1. Training material.
2. Certificate of attendance by Transition Tech as the first endorsed education provider **EEP** in Jordan by **IIBA**

6 CONTACT INFO

For more details please contact us:

Rasha Ramadan

Training Manager

Office: (+962-6) 515-4144 Ext. 107

Fax: (+962-6) 515-4838

Mob: (+962-79) 9810-806

E-mail: training@transition-se.com

7 ENDORSED EDUCATION PROVIDER

IIBA International Institute
of Business Analysis™

Transition Tech

has met all of the requirements to qualify as a provider of
Endorsed Education Provider
International Institute of Business Analysis (IIBA)

for the period

June 30, 2016 to June 30, 2017



A handwritten signature in black ink, appearing to read "S. Ashworth".

Stephen Ashworth
President and CEO

Provider since: June 30, 2010

IIBA is a registered trademark owned by International Institute of Business Analysis.