

Introduction to IBM Rational RequisitePro

Course Summary

Description

Rational RequisitePro is the IBM Rational Suite tool for automating the organization, tracking and management of requirements. It allows requirements that are maintained in MS Word documents to be cataloged and indexed through RequisitePro, but it also allows user defined meta-data – such as status, priority, who it is delegated to – to be recorded for the requirements as well as automatically maintaining a change log of the actions taken for each requirement. RequisitePro is able to link or cross reference requirements, including those that are in parent-child relationships, to support traceability through the set of requirements. RequisitePro also has a view mechanism to allow different types of queries to be run against the requirements database.

This course is an introduction to RequisitePro for those that have had no prior experience with the tool or minimal experience with requirements processes. The workshop starts with a review of the basics of requirements best practices in order to provide a conceptual framework for understanding how RequisitePro is used effectively in the workplace. Students are then led by the instructor through a hands on exploration of the features and interfaces of RequisitePro. The course concludes with a series of challenge exercises designed to build the student's familiarity and competence with RequisitePro and how it is used in typical situations they would normally encounter in their work environment.

Objectives

At the end of this course, students will be able to:

- Understand and be able to describe the main concepts of requirements management processes.
- Plan, design and create a RequisitePro project from a blank template.
- Open, use and modify an existing RequisitePro project.
- Manage the links between RequisitePro and requirements in Word documents.
- Create and manage inter-requirement links for traceability.
- Create and manage requirements hierarchies
- Use RequisitePro views for requirements analysis and write queries for the views.
- Design, integrate and import new and existing requirements document types into RequisitePro.
- Import existing requirements data into RequisitePro from other tools (eg. Spreadsheets).

Topics

- Introduction to Requirements Management
- Introduction to RequisitePro
- Working with External Requirements Documents
- Requirements Attributes
- Requirements
- Inter-requirement Relationships

Audience

This course is designed for anyone who will be working with, supporting or using RequisitePro. This is an entry level course and presupposes no prior knowledge or experience of requirements or Rational Software.

Prerequisites

There are no prerequisites required for this course.

Duration

One day

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Course Outline

I. Introduction to Requirements Management

- A. Requirements: what they are their role in the development processes.
- B. Requirements management: more than gathering requirements.
- C. Requirements tasks: organizing, referencing, evaluating, tracing.
- D. What makes for good requirements: requirements best practices.
- E. Documenting requirements – using requirements documents and templates.
- F. Common problems in requirements management.
- G. Requirements complexity: the critical need for requirements management automation.

II. Introduction to RequisitePro

- A. RequisitePro as a requirements process automation tool
- B. The architecture of RequisitePro.
- C. The RequisitePro project, templates and document repositories.
- D. RequisitePro interface walkthrough
- E. RequisitePro requirement entries and meta-data.
- F. Integrating RequisitePro requirements entries with external requirements documents
- G. View types and what they are used for.
- H. The traceability features of RequisitePro

III. Working with External Requirements Documents.

- A. Adding an existing requirements document to RequisitePro.
- B. Importing requirements from documents into RequisitePro.
- C. Modifying requirements documents through RequisitePro
- D. Distributing requirements documents from RequisitePro

IV. Requirements Attributes

- A. Planning out and defining requirement types in RequisitePro

- B. Creating attribute types and values templates.
- C. Assigning attribute types to requirement types.
- D. Modifying requirement types and attribute types.
- E. RequisitePro requirements that are not linked to external sources
- F. Examining requirements using attribute matrices.

V. Requirements

- A. Adding requirements directly to RequisitePro
- B. Adding requirements through requirements documents.
- C. Assigning attributes to requirements.
- D. Deleting and modifying existing requirements.
- E. Reviewing requirements histories.
- F. Writing queries for specialized attribute matrix views.

VI. Inter-requirement Relationships

- A. Creating to-from relationships between requirements.
- B. Viewing traceability in traceability matrices.
- C. Working with suspect relationships
- D. Creating, using and modifying parent child relationships
- E. Viewing parent child relationships in views.
- F. Working with linkages across multiple sets of requirement types.

VII. External Requirements

- A. Creating Document types in RequisitePro
- B. Unlinking documents from RequisitePro for distribution.
- C. Importing requirements from other sources, e.g. spreadsheets
- D. Exporting requirements data
- E. Relationships with other tools.