IBM Rational Rhapsody Model Based Systems Engineering Workflow V7.6

Duration: 3 Days      Course Code: QQ351G

Overview:
Within a span of three days, you learn the Harmony workflow for model-based development and you use the Rational Rhapsody Systems Engineering toolkit to follow the workflow through the hands-on development of a model. The automation features of the Systems Engineering Toolkit drastically reduce the time it takes to build large complex models while the formal systematic approach ensures a robust design. You are guided through the Systems Engineering workflow and you follow the workflow in Rhapsody. The workflow includes best practices for building models in the Requirements Analysis, Functional Analysis, Design Synthesis and handoff phase. The workflow used to create models is explained and experienced through a hands-on exercise using the Systems Engineering toolkit.

Target Audience:
This basic course is for: Project Managers Technical Leads Software Engineers Software-level system Engineers

Objectives:
- Identify the process for doing systems engineering in the context of Model-driven development
- Describe the system behavior using state machines
- Create a project in Rhapsody using the Systems Engineering toolkit and workflow
- Define an architecture using Internal Block Diagrams and Block Definition Diagrams
- Import requirements into Rational Rhapsody and link Use Cases to System Requirements
- Allocate system functionality to architecture by decomposing the black box activity views
- Capture the Use Case functional flow in an activity diagram
- Verify and validate the model through model execution
- Derive Use Case functional flow from the functional flow
- Define a model-based hand-off
- Define interfaces using Blocks and Ports

Prerequisites:
You should complete:
- Essentials of IBM Rational Rhapsody for Systems Engineers V7.6

Content:
- Requirements analysis and traceability
- Defining Functional flow using activity diagrams
- Use case scenarios
- Modeling ports and interfaces
- Modeling system behavior using state machines
- Verification and validation through model execution
- Merging the functional model into an architectural model
- Allocation of function to structure
- Hand-off of a subsystem
Further Information:
For more information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931
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