

Roadmap to Success: Comprehensive (Instructor-Led Classroom)

Course Description

This three-day, hands-on, intensive course teaches the art and science of requirements development and management. It prepares you to elicit, analyze, verify, validate and specify detailed requirements. You'll learn how to build a set of industry-standard, interrelated analysis models that provide rich requirements representations.

Navigating with the [EBG Requirements Roadmap](#)* and using an integrated case study, you'll gain hands-on experience working in a small team to create sixteen requirements models. You'll learn which models to employ based on the problem domain, and ways to calibrate the precision of the models to conduct "just enough" analysis. You'll evaluate which models to use for software enhancements and acquiring COTS (commercial off-the-shelf) software packages. You'll explore organizing and specifying functional and nonfunctional requirements. You'll master good requirements practices, including risk reduction, based on decades of engineering and practical project experience.

In this carefully designed and executed learning environment you'll actively learn through lecture, examples, discussions, exercises, and reviews..

This course is endorsed by the International Institute of Business Analysis (IIBA®) and aligns with the IIBA's *Business Analysis Body of Knowledge (BABOK®)* applicable tasks and techniques. You'll earn 21 PDs (Professional Development hours) for initial certification or 21 CDUs (Continuing Development Units) by attending this course.

*The [EBG Requirements Roadmap](#) is a set of interrelated models (behavioral, structural, dynamic, and control) at varying levels of detail.

Who Should Attend

This course is valuable for business analysts, subject matter experts, business rule analysts, application analysts, data or object analysts, data architects, data administrators, project managers, project leaders, product owners or managers, and application designers—anyone who is involved in discovering, analyzing, specifying, verifying, and validating business requirements and translating them into software requirements and analysis models. Exposure to general application analysis and analysis modeling is preferable.

Course Length

3 days (contact EBG about delivering tailored versions)

Prerequisites

[Roadmap to Success: Foundation for Requirements Development & Management](#)
(or equivalent experience)

Objectives

- Describe fundamental principles of modeling and specifying requirements
- Analyze scope-level user requirements
 - Identify stakeholders
 - Analyze events and responses
 - Model product boundaries with a context diagram
 - Define conceptual data requirements
 - Visualize states of a business topic
 - Identify business policies
 - Write scenarios to validate scope requirements
 - Explore process flows
 - Organize requirements into a product roadmap
- Review common elicitation techniques
- Analyze high-level and detailed user requirements
 - Describe user roles and personas
 - Define behavior with use cases, activity diagrams, stories, scenarios
 - Model data relationships and attributes
 - Explain why business rules are the core of functional requirements
 - Review ranking techniques to prioritize requirements
- Manage requirements
 - Demonstrate how models interconnect and complement each other to provide a complete set of requirements
 - Consider how to calibrate analysis models' depth and documentation
 - Identify useful requirements for acquiring a software package or enhancing software
 - Describe several techniques to verify requirements
 - Describe requirements management activities
- Specify and validate requirements
 - Write functional requirements statements
 - Trace requirements to external interfaces
 - Write testable quality attributes
 - Describe ways to validate requirements
 - Write acceptance tests

Course Materials

The participant's manual includes detailed text and illustrations. The rich, reusable requirements toolset includes a case study and solution, specification templates, worksheets, and references.

Each participant also receives a mini-poster of the EBG Requirements Roadmap and a copy of [*The Software Requirements Memory Jogger: A Pocket Guide to Help Software and Business Teams Develop and Manage Requirements*](#), by Ellen Gottesdiener. You'll reference use the Roadmap and Jogger to aid you in understanding and building the requirements during the class and even more importantly, as a ready references after the training.

Course Outline

1. Introduction to Requirements

- Requirements types
- Developing requirements by a question-and-answer process
- Requirements quality characteristics
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2. Scoping Requirements

- Scope models on EBG Requirements Roadmap
- Requirements elicitation
- Product roadmap
- Threading scope models
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3. Analyzing Requirement

- High-level, detailed and alternative models on the EBG Requirements Roadmap
- Threading user requirements models
- Multi-model simulation
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4. Managing Requirements

- Requirements calibrations
- Requirements for package selection, enhancements
- Verification techniques
- Change control, tracing requirements, requirements attributes
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5. Specifying and Validating Requirements

- Functional requirements
- Nonfunctional requirements
- External interface requirements
- Quality attributes
- Acceptance tests
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6. Requirements Good Practices

- Common requirements risks
- Risk inoculation
- Requirements good practices summary