

DEVELOPING REQUIREMENTS WITH USE CASES

2 Days Classroom
3 Days Live Online

Individual: \$1295

Group: \$1195

GSA: \$1185

Credits: 14 CDUs, 14 PDUs

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COURSE OVERVIEW

This two-day advanced course will build on your existing knowledge of the use case approach to give you hands-on experience with the latest proven techniques for developing use cases, discovering other types of requirements, and documenting them expertly. Lively lectures combined with insightful demonstrations and realistic practice exercises will equip you with the capability and confidence to improve your project outcomes through better requirements and use case development.

COURSE OUTLINE

Part 1: Review of Requirements Development with Use Cases

1. Definitions of terms
2. Levels and types of requirements
3. Characteristics of effective requirements
4. Requirements, use cases, and the development life cycle
5. Review and assess use case quality
6. Identify requirements associated with a use case
7. Use cases and Agile methods

Part 2: IT Project Initiation and Use Cases

1. Project scope and stakeholders: how they relate to use cases
2. Actor/goal definition and use cases
3. Event identification
4. User stories for agile development
5. Use case briefs and usage narratives
6. The use case diagram

Part 3: Documenting Requirements with Use Cases

1. The use case preamble: the big picture
2. Describing the normal course (i.e., main success scenario)
3. Identifying and describing extension scenarios
4. Identifying includes (sub-function use cases) and extends relationships (extension use cases)
5. Linking use cases for larger or more complex systems

Part 4: Improving Use Case Quality

1. Characteristics of well-written use cases
2. Recognizing common problems with use cases
3. Avoiding use case traps and pitfalls: advice and examples
4. Validating use cases through reviews and inspections

Part 5: Use Cases and Other Requirements

1. Deriving non-functional requirements: business rules, data definitions, interfaces, and quality attributes
2. Relating use cases to other requirements
3. Identifying design constraints
4. Documenting requirements and use case traceability

Part 6: Use Cases and Testing

1. Benefits of early test case development
2. Relating use cases to test cases
3. Automated tools: reducing test procedure development time and testing time

Part 7: Use Cases and Design Elements

1. What are design elements?
2. The relationship between a use case and design elements
3. Functional decomposition for finding design elements
4. Specifying design elements from a use case
5. Validating requirements from user stories, use cases, and interface design

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