

Comprehensive Agile Architecture for Projects

Course Summary

Description

This course starts with the story of how Agile arose to set the stage for understanding the motivation behind its growing popularity. It then walks through the details of what is affected by doing Agile and who is involved with a focus on the role of the architect. From conception to production and onto retirement, the course provides guidance as to what an architect is required to do at each step to ensure Agile projects are supported by robust and flexible architecture. It is a mixture of lectures and exercises providing opportunities to learn the concepts and how to apply them in the real world.

Objectives

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

- Describe where and how Agile is best used
- Identify what resources are needed
- Discuss the relationship between Agile software development and architecture
- Explain the role and deliverables of the Agile Architect
- Manage Agile architecture requirements
- Manage Agile architecture stakeholders
- Create an Agile architecture governance plan for continued success

Topics

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| • Enterprise Agile and Its Scope | • Agile Architecture Governance |
| • The Agile Architecture Role | • Agile Decision Points |
| • Agile Requirements and Stakeholder Management | • Agile From Development to Production |

Audience

Those involved in Agile projects: Architects, Software Development Team Leads, Technical leads, Agile team members, Business stakeholders.

Prerequisites

- Knowledge of and experience with architecture programs is required
- Experience with the software development process is assumed
- Familiarity with the Agile manifesto and principles is recommended

Duration

Three days

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Course Outline

- I. Agile in the Enterprise*
 - A. Overview
 - B. Arrival of Agile
 - C. Activity: Get Ready For Agile
- II. Scope of Agile Architecture*
 - A. Overview
 - B. The Agile Fit
 - C. EA Has a Vision
 - D. At the Project Level
 - E. Activity: Setup the Agile Project
- III. Who is the Agile Architect?*
 - A. Overview
 - B. Implications of Agile on the Architect
 - C. What is Needed?
 - D. Activity: Agile Architecture Deliverables
- IV. How to do Architecture in an Agile Way*
 - A. Overview
 - B. Agile Principles and Architecture
 - C. Activity: Working with Agile Principles
- V. Agile Architecture Requirements Management*
 - A. Overview
 - B. What is Different with Agile?
 - C. Requirements Management and Agile Projects
 - D. Activity: Agile Architecture Use Cases
 - E. Activity: Agile Project Use Cases
- VI. Agile Architecture Stakeholder Management*
 - A. Overview
 - B. Agile Cultures
 - C. Agile Teams for Projects
 - D. Activity: Team Composition for Projects
- VII. Agile Architecture Governance Frameworks*
 - A. Overview
 - B. Agile Governance Frameworks
 - C. Agile Governance Characteristics
 - D. Governance Components for Projects
 - E. Activity: Responsive Agile Governance for Projects
- VIII. Agile Architecture Decision Points*
 - A. Overview
 - B. Iterative Architecture
 - C. Agile Development Life Cycle
 - D. Activity: Agile Iterations
- IX. From Development to Production*
 - A. Overview
 - B. Testing as Part of Development
 - C. Testing to Production Releases
 - D. Activity: Delivering Agile