

Agile Essentials

Course length: 1 day

Course Description

Course Objective: You will identify key features of the agile software development model and benefits of implementing this model to develop a software product.

Target Student: This course is intended for programmers and development managers, including software development project managers (with more than 2 years' experience) with basic knowledge of software development methodologies and practices, who wish to familiarize themselves with Agile software development.

Prerequisites: Participants must have a background in software/application development and possibly some experience with various software life cycle models. The suggested prerequisite course is Introduction to Software Life Cycle Models.

Course Objectives

Upon successful completion of this course, students will be able to:

- Describe the agile software development methodology.
- List and describe the various phases of the agile software development methodology.
- Examine agile development with XP and Scrum.
- List and describe other software development methodologies that are based on the agile methodology.
- Describe agile project management.

Course Content

Lesson 1: Getting Started with the Agile Software Development Methodology

Topic 1A: Understand Software Development

Topic 1B: Understand Agile Software Development

Lesson 2: Understanding Agile Phases

Topic 2A: Understand Agile Plans

Topic 2B: Understand Plan Implementation

Topic 2C: Understand Agile Designs

Topic 2D: Understand Agile Design Principles

Topic 2E: Understand Code Construction in Agile

Topic 2F: Understand Code Testing

Lesson 3: Understanding Agile Software Development with Extreme Programming and Scrum

Topic 3A: Examine Extreme Programming

Topic 3B: Examine Scrum

Lesson 4: Understanding Other Agile Methodologies

Topic 4A: Understand Feature-Driven Development

Topic 4B: Understand Dynamic System Development

Topic 4C: Understand Lean Software Development

Topic 4D: Examine Adaptive Software Development



Lesson 5: Understanding Agile Project Management

Topic 5A: Agile Project Management

Topic 5B: Understand Critical Success Factors to Implementing Agile

