

## PMI Agile Certified Practitioner (PMI-ACP)®

### Course Overview

The use of Agile frameworks to manage projects is rapidly expanding beyond software development and into hardware, manufacturing, and service oriented industries world-wide. In recognition of this fact, Project Management Institute (PMI)® developed the Agile Certified Practitioner (PMI-ACP)® certification to certify an individual's experience and knowledge of applying Agile principles and practices to project management. The PMI-ACP is not limited to one Agile framework, requiring candidates to have a understanding of a broad range of frameworks to include Scrum, Kanban, XP, Lean, Test Driven Development, and more.

This course includes 50% discussion, 25% hands on exercises, and 25% practice exam and detailed reviews.

No prior experience needed, this course can fit any skill level. PMI's minimum requirements to apply for the PMI-ACP certification are:

- 2000 hours general project experience working on a project team within the last 5 years or current Project Management Professional (PMP)® or Program Management Professional (PgMP)® certification
- 1500 hours Agile experience in the last 3 years, in addition to the 2000 hours of general project experience above
- 21 contact hours of training in Agile practices

See the PMI-ACP handbook for specific instructions and requirements to apply for certification.

### Key Outcomes

Upon completion of this course, participants will be able to:

- Understand the requirements and process for PMI-ACP certification
- Understand and apply the numerous tools and techniques available in the 10 Tools and Technique areas or "tool kits" of the PMI-ACP Examination Content Outline
- Learn the 43 knowledge and skills areas identified in the PMI-ACP Examination Content Outline
- Understand how to apply the Agile Manifesto and Principles to challenging situations
- Gain a comprehensive knowledge of Scrum
- Understand the basics of other Agile frameworks and how they can be combined with Scrum
- Apply Agile techniques of initiating, planning, estimating, monitoring projects
- Understand how value and quality are built into every Agile project
- Understand the Agile approach to project management
- Comprehend and apply PMI's values and ethical standards

### Course Outline

#### PMI-ACP® Overview

- PMI-ACP Eligibility and Certification Process
- PMI-ACP Exam Overview
- PMI-ACP Reference Material

#### Agile Framework

- Agile Umbrella
- Comparing Agile to Traditional Project Management
- The Agile Manifesto And Principles

#### At-a-Glance:

**Course Length:**

3 days

**Course Number & Level:**

246.ACP3 – Foundational

**Professional Development Units (PDUs): 21 (Technical)****Delivery Options:**

- Instructor-led Training (Delivered Onsite at Your Location)

## **Agile Communications**

- Communications Management
- Communicating to Enhance Stakeholder Engagement
- Communicating Within the Organization to Improve Decision Making
- Communicating to Boost Team Performance

## **Adaptive Planning - The Product Roadmap**

- Agile Planning Concepts
- Multiple Levels of Planning
- Agile Project Chartering
- Product Roadmap
- Customer Value Prioritization
- Story Mapping
- Minimally Marketable Feature

## **Adaptive Planning - Product Backlog**

- User Stories
- Acceptance Criteria
- Definition of Product Backlog
- Grooming the Product Backlog

## **Agile Estimation**

- Wide Band Delphi
- Planning Poker
- Estimating Game
- Affinity Estimating

## **Adaptive Planning – Release Planning**

- Inputs/ Outputs to Release Planning
- Release Planning Meeting
- Velocity Driven Release Planning
- Fixed Schedule Release Planning

## **Adaptive Planning – Iteration Planning**

- Release Planning versus Iteration Planning
- Iteration Planning Preparation
- Velocity Driven Iteration Planning
- Commitment Driven Iteration Planning
- Iteration Backlog Burn down/up Charts
- Iteration Lengths

## **Product Quality in Agile Projects**

- Agile = Quality
- Definition of Done
- Test Driven Development
- Acceptance Test Driven Development
- Continuous Integration
- Continuous Process Improvement

## **Problem Detection and Resolution**

- Identifying and Mitigating Risks
- Risk Adjusted Backlog
- Risk Burn Down Graphs
- Risk Based Spikes

## **Agile Metrics – Monitoring and Reporting Value**

- Earned Value Management
- Cumulative Flow Diagrams
- Cycle Time
- Escaped Defects

## **Boosting Team Performance**

- Emotional Intelligence
- Collaboration
- Adaptive Leadership
- Negotiation
- Conflict Resolution
- Servant Leadership
- Active Listening
- Coaching and Building Empowered Teams
- Distributed Teams

## **Scrum Overview**

- Roles and Responsibilities
- How it Works
- Artifacts
- Scrum Rule

## **Extreme Programming**

- XP Practices
- XP Roles
- Adopting XP

## **Lean and Kanban**

- Learn the Lean Principles
- Defining Kanban
- Motivation for Kanban
- Kanban Best Practices
- Kanban Flow
- Value Stream
- Creating a Kanban Board

## **Other Agile Frameworks**

- Feature Driven Development
- Dynamic System Development Method (DSDM)
- Test Driven Development
- Crystal

## **Agile Project Administration**

- Agile Contracting Methods
- Agile Accounting Principles
- Agile Cost Estimation

## **Exam Preparation**

- PMI Professional Responsibility
- PMI Continuing Education Requirements
- Exam Format
- Exam Tips
- Practice Test and Review
- Developing Exam Preparation Strategy