



# PMI-ACP® (Agile Certified Practitioner) Certification Training Course

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## Program Overview:

This PMI-ACP® (Agile Certified Practitioner) training will empower you to become a skilled agile professional with knowledge of a broad range of agile methodologies, including Scrum, Kanban, Lean, extreme programming, and test-driven development. This course is aligned to recent updates to the PMI-ACP exam, using the Agile Practice Guide as a new reference material. This course covers agile methodologies, tools, and techniques and the concepts of the Agile Practice Guide, while providing real-life scenarios throughout.

## Program Features:

- > 55 hours of applied learning
- > 28 hours of instructor-led training
- > 27 hours of high quality content
- > 2 industry case study and 61 real life examples
- > 49 end-of-chapter quizzes
- > 5 simulation exams
- > 26 PDUs (self-paced learning) and 28 PDUs (instructor-led training)

## Delivery Mode:

**Online Bootcamp** - Online self-paced learning and live virtual classroom

## Prerequisites:

To apply for the PMI Agile Certified Practitioner certification PMI, you should have:

- › A secondary degree or higher degree
- › 2000 hours of general project management experience in the last five years
- › At least 1,500 hours of experience working on agile project teams during the last three years

## Target Audience:

- › Project managers
- › Agile team members
- › Associate/assistant project managers
- › Team leads/managers
- › Project executives/engineers
- › Software developers
- › Any professional aspiring to be a project manager

## Key Learning Outcomes:

This PMI-ACP training course will enable you to:

- › Understand the history of agile, including founding, evolution, core concepts and principles
- › Develop a working knowledge of the agile principles of Scrum, Kanban, XP and TDD
- › Develop the expertise of implementing multi-iterative development models for any scale of projects
- › Develop the ability to deliver high velocity stories and epics
- › Develop the knowledge and skills required to clear the PMI-ACP certification exam along with the requisite 21 PDUs

## Certification Alignment:

Our ACP course is accredited by [PMI](#). We are the registered training provider for this course.

## Certification Details and **Criteria:**

The PMI-ACP certification, provided by the Project Management Institute (PMI), is a globally recognized affirmation of an agile professional's knowledge of agile principles and skills. It covers a wide variety of agile approaches, such as Scrum, Lean, Kanban, extreme programming (XP) and test-driven development (TDD). Professionals with the PMI-ACP certification are in high demand because they help organizations become more responsive to dynamics in the marketplace and thus more efficient, completing projects more quickly and effectively.

## PMI-ACP Exam Application **Process:**

- Register to become a member of the Project Management Institute (PMI)
- Take our PMI-ACP Exam Prep Course to satisfy the required 21 contact hours (PDUs) education requirement
- Submit your PMI-ACP application through the PMI website and pay the fee
- Schedule your exam with Pearson VUE
- Take and pass the PMI-ACP Exam

The questions are broken down into 7 domains:

- Agile Principles and Mindset (16%)
- Value-driven Delivery (20%)
- Stakeholder Engagement (17%)
- Team Performance (16%)
- Adaptive Planning (12%)
- Team Performance (16%)
- Adaptive Planning (12%)

## Simplilearn Course Completion **Criteria:**

- Attend 85 percent of the course or one complete batch
- Earn a score of at least 60 percent on the course-end assessment
- Successful evaluation of at least one project

# Course Curriculum:

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## Lesson 01 - Course Introduction

- > Course Introduction
- > Eligibility Requirements
- > Certification Fees and Renewal
- > About Our Course

## Lesson 02 - Agile Principles and Mindset - Part 1

- > Agile Principles and Mindset - Part One
- > Introduction to Agile
- > Agile Engineering Practices
- > The Agile Manifesto
- > Agile Manifesto Explained
- > Principles of Agile Manifesto
- > Applying the Principles of Agile Manifesto
- > Agile Core Principles and Practices
- > Benefits of Agile
- > Project Life Cycle Characteristics
- > Key Takeaways
- > Knowledge Check

## Lesson 03 - Agile Principles and Mindset - Part 2

- > Agile Principles and Mindset - Part Two
- > Agile Methodologies
- > Agile Mindset
- > Where to Apply Agile
- > Meaning of Scrum
- > Features of Scrum
- > Three Pillars of Scrum
- > Scrum Roles
- > Key Terms of Scrum
- > Scrum Meetings
- > Scrum: An Empirical Process
- > Extreme Programming
- > Extreme Programming Practices - Part A
- > Extreme Programming Practices - Part B
- > Roles in Extreme Programming
- > Process Diagram of XP
- > Crystal Method
- > Properties of Crystal Method
- > Key Categories of Crystal Method - Part A
- > Key Categories of Crystal Method - Part B
- > Dynamic Systems Development Method (DSDM)
- > Basic Principles of Atern
- > Planning Philosophy in DSDM
- > DSDM Techniques
- > DSDM Phases
- > Feature-Driven Development
- > Agile Project Management
- > Key Takeaways
- > Knowledge Check

## Lesson 04 - Value-Driven Delivery - Part 1

- > Value-Driven Delivery - Part One
- > Quantifying Customer Value
- > Time Value of Money
- > Time Value of Money: Example
- > The Financial Feasibility of Projects
- > Return on Investment ROI
- > Net Present Value (NPV)
- > Net Present Value (NPV): Example
- > Internal Rate of Return (IRR)
- > Payback Period
- > Payback Period: Example
- > Prioritization of Functional Requirements
- > MoSCoW
- > Kano Model
- > Relative Weighting
- > Prioritization of Non-Functional Requirements
- > Risk Management in Agile
- > Key Takeaways
- > Knowledge Check

## Lesson 05 - Value-Driven Delivery - Part 2

- > Value-Driven Delivery - Part Two
- > Minimal Viable Product
- > Project Planning Using MVP
- > Agile Compliance
- > Key Drivers of Agile Compliance
- > Incremental Delivery
- > Review and Feedback
- > Earned Value Management
- > Earned Value Metrics
- > Earned Value Metrics: Example
- > Agile Contracts: Components
- > Agile Contracting Methods
- > Fixed-Price or Fixed-Scope Contract
- > Time and Materials (T and M) Contract
- > T and M with Fixed Scope and Cost Ceiling
- > T and M with Variable Scope and Cost Ceiling
- > Bonus or Penalty Clauses
- > Rolling Agile Contracts
- > Terms Used in Agile Contracts
- > Key Takeaways
- > Knowledge Check

## Lesson 06 - Stakeholder Engagement - Part 1

- › Stakeholder Engagement - Part One
- › Stakeholder Engagement
- › Project Charter
- › Understanding Stakeholder Needs
- › Agile Wireframes
- › User Story
- › Story Card Information
- › Agile Personas
- › Theme and Epic
- › Agile Story Maps
- › Community and Stakeholder Values
- › Key Takeaways
- › Knowledge Check

## Lesson 07 - Stakeholder Engagement - Part 2

- › Stakeholder Engagement - Part Two
- › Community Management
- › Communication and Knowledge Sharing
- › Social Media Communication
- › Information Radiators
- › Burnup and Burndown Charts
- › Kanban or Task Board
- › Impediment Logs
- › Characteristics of Information Radiators
- › Agile Modeling
- › Active Listening
- › Key Elements of Active Listening
- › Globalization Diversity and Cultural Sensitivity
- › Cultural Diversity Issues: Recommendations
- › Agile Facilitation Methods
- › Agile Negotiation and Conflict Management
- › Five Levels of Conflict
- › Key Takeaways
- › Knowledge Check



## Lesson 08 - Team Performance - Part 1

- > Team Performance - Part One
- > Features and Composition of Agile Teams
- > Stages of Agile Team Formation
- > High Performance Teams
- > Generalizing Specialist
- > Team Responsibility
- > Self-Organization
- > Key Takeaways
- > Knowledge Check

## Lesson 09 - Team Performance - Part 2

- > Team Performance - Part Two
- > Agile Leadership
- > Best Practices of Agile Leadership
- > Management vs Leadership
- > Servant Leadership
- > Coaching and Mentoring
- > Agile Coaching
- > Agile Emotional Intelligence
- > Team Motivation
- > Maslow's Theory
- > Frederick Herzberg's Theory
- > McClelland's Theory
- > Boehm's Theory
- > Team Space
- > Co-Located Teams
- > Distributed Teams
- > Co-Located vs. Distributed Teams
- > Osmotic Communication
- > Team Collaboration and Coordination
- > Collaboration Technology
- > Communication Gap-Example One
- > Communication Gap-Example Two
- > Brainstorming Sessions
- > Team Velocity
- > Velocity-Example One
- > Velocity-Example Two
- > Sample Velocity Chart
- > Velocity-Example Two
- > Agile Tools
- > Knowledge Check

## Lesson 10 - Adaptive Planning - Part 1

- > Adaptive Planning - Part One
- > Planning Philosophy
- > Aligning Agile Projects
- > Rolling Wave Planning
- > Timeboxing
- > Best Practices of Timeboxing
- > Advantages of Timeboxing
- > Agile Estimation
- > Story Points
- > Assigning Story Points
- > Story Points Estimation
- > Story Points Estimation Scale: Example
- > Value Points
- > Ideal Days
- > Story Points vs. Ideal Days
- > Wideband Delphi Technique
- > Planning Poker
- > Planning Poker: Example
- > Affinity Estimation
- > Key Takeaways
- > Knowledge Check

## Lesson 11 - Adaptive Planning - Part 2

- > Adaptive Planning - Part Two
- > Project Size Estimation
- > Release Plan
- > Release Plan: Example
- > Iteration Plan
- > Types of Iteration Planning
- > Iteration Lifecycle: Example
- > Release Plan vs. Iteration Plan
- > Agile Product Roadmap
- > Backlog Refinement - Part Two
- > Value-Based Analysis and Decomposition
- > Agile Cone of Uncertainty
- > Velocity Variations
- > Sprint Reviews
- > Sprint Retrospectives
- > Mid-Course Corrections
- > Key Takeaways
- > Knowledge Check

## Lesson 12 - Problem Detection and Resolution - Part 1

- > Problem Detection and Resolution - Part One
- > Agile Problem Detection
- > Problem Detection Techniques
- > Fishbone Diagram
- > Five Whys Technique
- > Control Charts
- > Lead Time and Cycle Time
- > Kanban
- > Kanban Process
- > Example of Kanban Board
- > Work In Progress
- > Managing Constraints
- > Little's Law
- > Escaped Defects
- > Agile Problem Solving
- > Key Takeaways
- > Knowledge Check

## Lesson 13 - Problem Detection and Resolution - Part 2

- > Adaptive Planning
- > Metrics and Measures
- > Benefits of Metrics
- > Examples of Metrics
- > Baseline Metrics
- > Variance and Trend Analysis
- > Risk Management Life Cycle
- > Step One-Risk Identification
- > Step Two-Risk Assessment
- > Step Three-Risk Response Strategies
- > Step Four-Risk Review
- > Risk Log
- > Risk Burndown Chart
- > Risk Profile Graph
- > Spike
- > Agile Failure Modes
- > Agile Coach Failure Modes
- > Troubleshooting Guidelines
- > Key Takeaways
- > Knowledge Check

## Lesson 14 - Continuous Improvement - Part 1

- > Continuous Improvement - Part One
- > Kaizen
- > Kaizen in Agile
- > Lean
- > Defining Waste Manufacturing and Software Development
- > A Five Step Process to Becoming Lean
- > Value Stream Mapping
- > Agile Retrospectives
- > Cargo Smells
- > Conducting a Retrospective
- > Brainstorming Techniques
- > Process Analysis Techniques
- > Agile Process Tailoring
- > Project Factors That Influence Tailoring
- > Key Takeaways
- > Knowledge Check

## Lesson 15 - Continuous Improvement - Part 2

- > Continuous Improvement - Part Two
- > Quality in Agile
- > Best Practices for Quality in Agile
- > Best Practice One: Verification and Validation
- > Best Practice Two: Exploratory Testing
- > Best Practice Three: Usability Testing
- > Best Practice Four: Test-Driven Development
- > Test-Driven Development Advantages
- > Acceptance Test-Driven Development Cycle (ATDD)
- > Best Practice Five: Continuous Integration
- > Best Practice Six: Definition of Done
- > Testing Pyramid and Quadrant
- > Checklist for Story Completion
- > Agile Flowchart
- > Agile Spaghetti Diagram
- > Organizational Self Assessment
- > Key Takeaways
- > Knowledge Check

# Course End Projects:

## **Project 1: E-commerce Website Functionality Creation**

Participants will learn how the three agile roles (Product Owner, Scrum Master, and Scrum Team) complement each other in a real-time project on Jira. This demo of an e-commerce website will help users understand and create backlogs, user stories, tasks, epics, and sub-tasks. It will also show you how to manage multiple releases.

## **Project 2: Smart Weather**

You will complete two industry-based tasks provided by the product owner of a new technology division. The projects involve creating a portal to provide weather-based services to multiple clients. The portal needs to pull the weather forecast from various public services so that the captured data can be used for various purposes. Implementation of this project should be completed through JIRA.

## **Project 3:**

BigBucks Café, a leading chain of premium coffee shops, wants you to use weather data to regulate and manage its daily operations. As a Scrum Master, you need to resolve and create a prioritized product backlog for the scrum team.

## **Project 4:**

The world's largest life insurance company, LeViva, wants to launch an app to serve its customers, and they would like to use the weather forecast. As a Scrum Master, you need to resolve and create a prioritized product backlog for the scrum team.

## Customer **Reviews:**



**Bhagyaraj Chitoth**

Senior Manager - Analytics - Global Risk Management at Anheuser-Busch InBev

The course instructor, Parul, is very knowledgeable and was able to answer all our questions asked during the sessions. Her training style was impressive!



**Alok Upadhyay**

Transformation Coach & Trainer | SAFe Program Consultant (4.6) | KMP | CSP® | CSPO® | CSM® |

Good experience learning about agile methodologies, tools and techniques. The pointers and task-oriented games were amazingly helpful for understanding the key concepts.



**Rajesh Nagwekar**

Senior Manager, Engineering Products at Kofax India Pvt Ltd

The training content was modified as per my requirement. All questions were clarified and they were practical. The sessions were completed on time without missing any areas.



**Soumendra Kumar Das**

Director - Projects at Cognizant Technology Solutions

I registered for the Agile Certified Practitioner (PMI-ACP) course from Simplilearn. The content of the self-paced learning program is excellent. The best part is that the subunits in each of the domains are very well organized. Simplilearn does not just try to make you pass the examination, they prepare you in such a way that the fundamentals are clarified as well.

## About Us:

Simplilearn is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time as traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals.

For more information, please visit our website:

<https://www.simplilearn.com/agile-and-scrum/pmi-acp-certification-training>



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