

Agile Certified Practitioner (ACP) Exam Prep

Course Overview

This course will help prepare students for the Agile Certified Practitioner exam, first by explaining the application process and test, then by looking at specific areas of Agile such as the principles and mindset, dynamic systems development, value-driven delivery, stakeholder engagement, boosting team performance, adaptive planning, problem detection and resolution, and continuous improvement.

<u>Course Introduction</u>	2m
Course Introduction	
<u>Chapter 01 - The Process</u>	18m
The Process	
Application Process	
ACP Qualifications	
Scheduling Your Exam	
Rescheduling/Cancelling	
Fees	
<u>Chapter 02 - The Exam</u>	23m
The Exam	
Exam Results	
The Exam (cont.)	
Exam Breakdown	
Tools and Techniques 50% of Exam	
Knowledge & Skills 50% of Exam	
Level 1 (33% of Total Examination Questions)	
Level 2 (12% of Total Examination Questions)	
Level 3 (5% of Total Examination Questions)	
Key Readings	
Domain Breakdown	
<u>Chapter 03 - Agile Principles & Mindset</u>	2h 4m
Agile Principles & Mindset	
Domain Tasks	
PMBOK Guide vs. Agile	
Agile is Iterative & Incremental	
The Effects of WIP & “Best Resourcing”	
The Beginning of Agile	
Agile Development Values...	
The 12 Principles of Agile Software	
The Heartbeat of Agility	
Must, Wants & Needs	

Agile Methodologies
Scrum Basics
Foundation
The Scrum Roles
Team Members
A Project Vision
Product Backlog
Scrum Basics (cont.)
The Daily Sprint Schedule
The Basic Team Board or Scrum Board
Adding Kanban to Scrum
Extreme Programming
Extreme Programming - Basics
Core Values
Principles & Practices
Core Practices - Fine Scale Feedback
Fine Scale Feedback - Release Planning
Fine Scale Feedback - Iteration Planning
Core Practices - Fine Scale Feedback (cont.)
XP Core Practices – Continuous Process
Core Practices – Shared Understanding
Core Practices - Programmer Welfare
The Extreme Programming Workflow
XP vs. Scrum
Feature-Driven Development (FDD)
Develop Overall Model
Build Feature List
Plan & Design by Feature
Build by Feature
FDD
Scrum vs. FDD

Chapter 04 - Dynamic Systems Development (DSDM)

54m

Dynamic Systems Development (DSDM)
Dynamic Systems Development Method
Prerequisites for Using DSDM
The Atern Team Model
DSDM Eight Principles
1. Focus on the Business Need
2. Deliver on Time
3. Collaborate
4. Never Compromise Quality
5. Build Incrementally from Firm Foundations
6. Develop Iteratively
7. Communicate Continuously & Clearly
8. Demonstrate Control
Crystal Overview
Cockburn Differentiated Between...
Crystal Methods Focus on...
Crystal

Common Crystal 7 Properties
Frequent Delivery
Reflective Improvement
Close or Osmotic Communication
Personal Safety & Focus
Easy Access to Expert Users
Automated Tests
Lean Software Development (LSD)
Key Tools & Concepts
Seven Wastes (TIMWOOD)
Kanban
Task/Kanban Board
Five Core Principles of Kanban
Scrum vs. Kanban
Test Your Assumption
SAFe 3.0 - Level I
SAFe 3.0 - Level II
SAFe 3.0 - Level III
SAFe Core Values

Chapter 05 - Value-Driven Delivery

1h 32m

Value-Driven Delivery
Domain Tasks
Value-Driven Delivery (cont.)
Assessing Value
Planning Value
Value Stream Mapping
Total Cycle Time
Poppendieck
Customer-Valued Prioritization
Monopoly Money
Kano Analysis
Requirements Prioritization Model
A Sample Story Map
Risk
Major Risk Classes
Agile Helps Mitigate Risks
Successful Agile Projects
Expected Monetary Value (EMV)
Decision Tree Analysis
Use EMV
Agile Contracting
DSDM Contracting
Graduated Fixed Price Contracts
Fixed Price Work Packages
Why not Gantt Charts & Other Software?
Little's Law
Demonstrations
Cumulative Cost Curve
Earned Value

Forecasting – ETC
Forecasting - EAC
Forecasting - TCPI
Burndown Chart

Chapter 06 - Stakeholder Engagement

58m

Stakeholder Engagement
Domain Tasks
Who is a Stakeholder?
Key Aspects
Wireframes
Personas
Persona Example: Frances Miller
User Stories
User Story Strengths
User Stories The 3 Cs
You Must INVEST in Your Stories
Given, When, Then
Definition of Done (DoD)
F2F is Best
Information Radiators
Information Radiators Examples
Agile Modeling
The Diagram & The Write Up
Active Listening
Facilitation Methods
Conflict Resolution
Speed B. Leas Conflict Model
Participatory Decision Models
Management vs. Leadership
Servant Leadership
12 Principles for Leading Agile Projects

Chapter 07 - Boosting Team Performance

30m

Boosting Team Performance
Domain Tasks
COCOMO
Weighting Factors for COCOMO Input Variables
Adaptive Leadership
Leadership Styles
Theories of Management Style
Emotional Intelligence
Ability-Based EI Model
Goleman's Mixed EI Model
Empowered Teams
High-Performance Teams
The Five Dysfunctions of a Team
The Daily Scrum
One-on-One Coaching & Mentoring
Brainstorming Techniques

Green Zone & Red Zone
Other Tools

Chapter 08 - Adaptive Planning

42m

Adaptive Planning
Domain Tasks
The Basic Agile Project Planning Process
Adaptive Planning (cont.)
Timeboxing
Progressive Elaboration
Rolling Wave Planning
Process Tailoring
The Agile Pyramid
The Agile Test Pyramid
Value-Based Analysis
Value-Based Decomposition & Prioritization
Agile Games
Wideband Delphi & Planning Poker
Estimation
Time & Cost Estimation
What Causes Project Delays?
Planning Differences
What is SAFe
SAFe Core Values
Release Planning Meeting
Scrum of Scrums
System Demo
Iterations

Chapter 09 - Problem Detection & Resolution

43m

Problem Detection & Resolution
Domain Tasks
Cycle Time
Cost vs. Value of Change
Escaped Defects
Quality Standards
Failure Modes & Alternatives
In Control
Continuous Integration
Risk-Based Spike
Test Driven Development (TDD)
Traditional Coding Model
The TDD Model
TDD Chart
TDD
Advantages & Disadvantages
Acceptance Test-Driven Development
Four Stages
TDD vs. Test 1st
Refactoring

Types of Refactoring
Planned Refactoring
Long Term Refactoring
M. Fowler's Design Stamina Hypothesis
Why Refactor?
Problem Solving
Problem Solving – Gather Data
Problem Solving – Generate Insights
5 Whys
Problem Solving - Decide What to Do

Chapter 10 - Continuous Improvement

23m

Continuous Improvement
Domain Tasks
Retrospectives Are Key
Retrospectives Steps
Pre-Mortem
Pre-Mortem Process
Complexity Assessment

Total Duration: 8h 28m