

Agile Project Management

by Google

About this Course

This is the fifth course in the Google Project Management Certificate program. This course will explore the history, approach, and philosophy of Agile project management, including the Scrum framework. You will learn how to differentiate and blend Agile and other project management approaches. As you progress through the course, you will learn more about Scrum, exploring its pillars and values and comparing essential Scrum team roles. You will discover how to build, manage, and refine a product backlog, implement Agile’s value-driven delivery strategies, and define a value roadmap. You will also learn strategies to effectively organize the five important Scrum events for a Scrum team, introduce an Agile or Scrum approach to an organization, and coach an Agile team. Finally, you will learn how to search for and land opportunities in Agile roles. Current Google project managers will continue to instruct and provide you with the hands-on approaches, tools, and resources to meet your goals.

Learners who complete this program should be equipped to apply for introductory-level jobs as project managers. No previous experience is necessary.

By the end of this course, you will be able to:

- Explain the Agile project management approach and philosophy, including values and principles.
- Explain the pillars of Scrum and how they support Scrum values.
- Identify and compare the essential roles in a Scrum team and what makes them effective.
- Build and manage a Product Backlog and perform Backlog Refinement.
- Describe the five important Scrum events and how to set up each event for a Scrum team.
- Implement Agile's value-driven delivery strategies and define a value roadmap.
- Explain how to coach an Agile team and help them overcome challenges.
- Conduct a job search for an Agile role and learn how to succeed in your interview.

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Basic Info	Course 5 of 6 in the Google Project Management: Specialization
Level	Beginner
Language	English Volunteer to translate subtitles for this course
How To Pass	Pass all graded assignments to complete the course.
User Ratings	4.8 stars

Syllabus

Week 1

The fundamentals of Agile

You will learn how the course is structured and explore the history, approach, and philosophy of Agile project management and Scrum theory. You will also learn why Agile is best suited to industries that are susceptible to change and how to differentiate and blend Agile approaches.

11 videos, 5 readings, 3 practice quizzes

1.

Video: Introduction to Course 5

2.

Reading: Course 5 overview

3.

Reading: Helpful resources to get started

4.

Discussion Prompt: Meet and greet

5.

Video: A brief history of Agile

6.

Video: Distinguishing Agile from Waterfall

7.

Practice Quiz: Test your knowledge: The Agile approach

8.

Discussion Prompt: Agile or Waterfall?

9.

Video: The four values of the Agile Manifesto

10.

Ungraded Plugin: Explore: Agile values

- 11. **Video:** The 12 principles of the Agile Manifesto
- 12. **Reading:** Adopting an Agile mindset: The Agile Manifesto
- 13. **Video:** Adopting an Agile mindset
- 14. **Practice Quiz:** Test your knowledge: The Agile Manifesto
- 15. **Video:** Applying Agile in a VUCA environment
- 16. **Video:** Introduction to Scrum
- 17. **Reading:** The founding principles of Scrum
- 18. **Video:** Introduction to Kanban, XP, and Lean
- 19. **Video:** Blending project management approaches
- 20. **Reading:** The Spotify model
- 21. **Practice Quiz:** Test your knowledge: Agile frameworks
- 22. **Video:** Wrap-up


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 **Graded:** Weekly Challenge 1

Week 2

Scrum 101

You will learn the pillars of Scrum and how they support Scrum values. You will also compare essential Scrum Team roles and examine what makes them effective.

 9 videos, 3 readings, 1 practice quiz

- 1. **Video:** Introduction: Scrum 101
- 2. **Video:** The three pillars of Scrum
- 3. **Video:** The five values of Scrum
- 4. **Ungraded Plugin:** Identify: Scrum pillars and values
- 5. **Reading:** The Scrum Guide
- 6. **Discussion Prompt:** Applying Scrum values
- 7. **Video:** Essential Scrum roles
- 8. **Video:** Traits of an effective Scrum Master
- 9. **Video:** Pete: What makes an effective Scrum Master
- 10. **Video:** Traits of an effective Product Owner
- 11. **Video:** Traits of an effective Development Team
- 12. **Reading:** Understanding Scrum Team roles
- 13. **Reading:** Characteristics of a great Scrum Team
- 14. **Practice Quiz:** Test your knowledge: Scrum roles
- 15. **Video:** Wrap-up


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 **Graded:** Weekly Challenge 2

Week 3

Implementing Scrum



You will learn how to build and manage a Product Backlog and develop user stories and epics. You will also explore how to set up the five important Scrum events and use tools to plan and visualize sprint workflows and progress.

 16 videos, 12 readings, 7 practice quizzes

- 1. **Video:** Introduction: Implementing Scrum
- 2. **Video:** Building a Product Backlog

3. **Reading:** Product Backlog: The Scrum Guide overview
4. **Practice Quiz:** Test your knowledge: The Product Backlog
5. **Video:** Writing user stories
6. **Reading:** The components of user stories and epics
7. **Ungraded Plugin:** Identify: User stories and acceptance criteria
8. **Reading:** Activity Exemplar: Create a Product Backlog
9. **Video:** Create a product backlog in Asana
10. **Practice Quiz:** Activity: Create a Product Backlog in Asana
11. **Video:** Backlog refinement and effort estimation
12. **Reading:** Agile effort estimation techniques
13. **Reading:** T-shirt sizes and story points
14. **Practice Quiz:** Activity: Add estimation
15. **Reading:** Activity Exemplar: Add estimation
16. **Video:** Adding estimation in Asana
17. **Practice Quiz:** Activity: Adding estimation in Asana
18. **Video:** Introduction to the Sprint
19. **Reading:** The Sprint: The Scrum Guide overview
20. **Practice Quiz:** Test your knowledge: The Sprint
21. **Video:** Sprint planning
22. **Peer Review:** Activity: Create a Sprint Plan and Sprint Backlog
23. **Video:** Create and manage Sprints in Asana
24. **Practice Quiz:** Activity: Create and manage Sprints in Asana
25. **Video:** The Daily Scrum and Sprint Review
26. **Video:** Sarah: The benefits of a Daily Standup
27. **Reading:** Releasable Increment versus Minimum Viable Product
28. **Video:** The Sprint Retrospective
29. **Reading:** Sprint Retrospectives: Pitfalls and best practices
30. **Practice Quiz:** Activity: Recap a Sprint Retrospective
31. **Reading:** Activity Exemplar: Recap a Sprint Retrospective
32. **Video:** Velocity and burndown charts
33. **Reading:** Interpreting velocity: Dos and Don'ts
34. **Video:** Utilizing Kanban boards
35. **Ungraded Plugin:** Practice: Using a Kanban board
36. **Video:** Tools for transparency and collaboration
37. **Video:** Wrap-up
38. **Reading:** Optional: Agile in a nutshell


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-  **Graded:** Activity: Create a Product Backlog
-  **Graded:** Weekly Challenge 3

Week 4

Applying Agile in the organization

You will learn to implement Agile’s value-driven delivery strategies and how to define a value roadmap. You will learn strategies to effectively introduce an Agile or Scrum approach to an organization and coach an Agile team. You will also investigate how Agile frameworks have evolved and how to land opportunities in Agile roles.

 14 videos, 12 readings, 7 practice quizzes

1. **Video:** Introduction: Applying Agile in the organization

- 2. **Video:** Maximizing value-driven delivery
- 3. **Reading:** Case study: Forming a value-driven task force
- 4. **Video:** Camron: How Agile can drive value
- 5. **Practice Quiz:** Reflection: Delivering value
- 6. **Video:** Components of a value roadmap
- 7. **Reading:** Product roadmaps: Benefits, pitfalls, and best practices
- 8. **Video:** Creating an effective value roadmap
- 9. **Reading:** Responding to change over following a plan
- 10. **Practice Quiz:** Activity: Make changes to your release plan
- 11. **Reading:** Activity Exemplar: Make changes to your release plan
- 12. **Video:** Facilitating organizational change
- 13. **Reading:** The influencer change framework
- 14. **Discussion Prompt:** Sources of influence
- 15. **Video:** Coaching an Agile team
- 16. **Reading:** Coaching versus managing in Agile
- 17. **Practice Quiz:** Test your knowledge: Agile coaching
- 18. **Video:** Agile team challenges
- 19. **Practice Quiz:** Reflection: Coaching versus managing
- 20. **Video:** Common Agile coaching challenges
- 21. **Practice Quiz:** Test your knowledge: Agile challenges
- 22. **Video:** The evolution of Agile
- 23. **Reading:** The relationship between Agile and DevOps
- 24. **Reading:** Scaling Agile
- 25. **Practice Quiz:** Test your knowledge: Frameworks for scaling Agile
- 26. **Video:** Jez: My thoughts on Agile
- 27. **Video:** Agile project management opportunities
- 28. **Ungraded Plugin:** Respond: Agile interview questions
- 29. **Video:** Course wrap-up
- 30. **Reading:** Course 5 glossary
- 31. **Discussion Prompt:** Your learning journey
- 32. **Reading:** Getting started on Course 6
- 33. **Video:** Creating a job search plan
- 34. **Reading:** Job search project plan
- 35. **Practice Quiz:** Activity: Build a job search project plan
- 36. **Reading:** Activity Exemplar: Build a job search project plan
- 37. **Discussion Prompt:** Coursera Job Platform Help

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 **Graded:** Weekly Challenge 4

How It Works

General

How do I pass?

To earn your Certificate, you'll need to earn a passing grade on each of the required assignments—these can be quizzes, peer-graded assignments, or programming assignments. Videos, readings, and practice exercises are there to help you prepare for the graded assignments.

What do start dates and end dates mean?

Once you enroll, you'll have access to all videos, readings, quizzes, and programming

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assignments (if applicable). If you choose to explore the content without purchasing, you may not be able to access certain assignments. If you don't finish all graded assignments before the end of the session, you can reset your deadlines. Your progress will be saved and you'll be able to pick up where you left off.

What are due dates? Is there a penalty for submitting my work after a due date?

Within a course, there are suggested due dates to help you manage your schedule and keep work from piling up. Quizzes and programming assignments can be submitted late without consequence. However, it is possible that you won't receive a grade if you submit your peer-graded assignment too late because classmates usually review assignment within three days of the assignment deadline.

Can I re-attempt an assignment?

Yes. If you want to improve your grade, you can always try again. If you're re-attempting a peer-graded assignment, re-submit your work as soon as you can to make sure there's enough time for your classmates to review your work. In some cases you may need to wait before re-submitting a programming assignment or quiz. We encourage you to review learning material during this delay.

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Peer-graded assignments

Peer-graded assignments require you and your classmates to grade each other's work.

How do peer graded assignments work?

After you submit your assignment, you will review some of your peers' assignments. The number of assignments you must review is set by the instructor of the course.

I reviewed my peers' assignments! What happens next?

While you're reviewing your peers' assignments, they'll review yours. If you submit your assignment on time, you'll get your grade within a week, as long as at least one peer reviews your assignment. If you submit late, you'll need all of the peer reviews the instructor requires.

[Learn more about Peer Graded Assignments.](#)

How are grades calculated?

You and your classmates will be asked to provide a score for each part of the assignment. Final grades are calculated by combining the median scores you received for each section.

What kind of feedback should I give?

Use the instructor's criteria in the rubric to grade honestly and fairly. If your peers' answers are excellent, score them highly and tell them what they did well. If their answers aren't as good, give the score they deserve, and be sure to provide respectful, useful feedback so they can do better next time they attempt the assignment.

Is there a penalty for submitting my work late?

No, but it's important to submit your work as close to the due date as you can. Classmates grade most of the assignments within three days of the due date. If you submit yours too late, there may not be anyone to review your work.

If I fail an assignment, can I try again?

Yes! You can always try again, but you'll need to resubmit your work as soon as possible to make sure your classmates have enough time to grade your work.

Can I edit my assignment?

Yes, but you'll need to re-submit your work and any grade you've already received will be deleted.

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Course 5 of Specialization

Start your path to a career in project management

In this program, you'll learn in-demand skills that will have you job-ready in less than six months. No degree or experience is required.



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