



# Agile Project Management Certificate Program

Summer 2019

► [ctme.caltech.edu/agile](http://ctme.caltech.edu/agile)

**Register today – Seats limited**

**Format:** 5-Day, Public, Instructor-Led

**Upcoming Dates:** Aug 17/Sep 7,14, 28/Oct 12

**Location:** Caltech Campus, Pasadena, CA

## Program Objectives

Modern organizations demand lean and agile approaches for meeting changing customer needs and expectations, and for efficiently producing high-quality products, services, and solutions. The need for agile project management is driven by growing global competition, continuous innovation in technology, and incredibly short time-to-market requirements. The transition to agile requires not only organizational and personal commitment but also project managers with knowledge and experience in agile methods.

Through expert-led action learning and hands-on exercises, you'll experience what agile looks like and learn how to help teams respond to unpredictability through incremental, iterative work cadences, and generative empirical feedback.

## Learning Objectives

The objective of this five-day program is to provide agile tools and techniques for planning and executing knowledge-based projects. The focus is on agile, Scrum, and Kanban methodologies, and their application to both software and non-software projects.

### Learnings include:

- Describing agile project management processes
- Articulating how agile differs from waterfall approach
- Identifying project management scenarios well-suited for application of agile and lean methods

- Differentiating between agile frameworks such as Scrum, Extreme Programming (XP), and Lean, and select the most appropriate for a project
- Applying the Scrum and Kanban methods
- Assessing requirements and design considerations
- Effectively managing scope uncertainty and changing customer requirements
- Driving agile scoping, project planning and estimating activities
- Tracking and reporting agile project progress
- Leading method transitions within the organization
- Improving processes continuously during the project
- Implementing the Project Close process and transitioning to sustainment teams, like DevOps
- Energizing teams through an agile culture

## Participants

Professionals seeking to modernize its methods or optimize business performance in high-tech companies will value this unique program. Applications include business intelligence, data mining/warehousing, service delivery, product development, process change, business model transformation, and marketing.

Organization leaders can use this program to jumpstart their in-house project teams for customer experience, technology deployments, focused “tiger teams”, social impact, centers of excellence, internal audit, merger integration, or strategic change.

**To customize this program for your organization, contact a program advisor. 626.395.4042**  
[ctme@caltech.edu](mailto:ctme@caltech.edu)

## Why CTME

Leaders who aspire to innovate and execute come to Caltech's Center for Technology and Management Education (CTME). Here, you will do more than attend a class. You will develop new mindsets, technology skills, and leadership capacity to master the complex issues that challenge your organization today.

**Instructors with real industry insight**—Each of our educators bring decades of real world experience and leadership from roles in research, engineering, commercialization, manufacturing, operations and executive accountability of technology-driven organizations and government agencies.

**Action-learning** is more than just experiential. We facilitate real impact through small groups working on actual problems which, with Caltech coaching and structure, grows individuals, teams, and organizations to adapt to new challenges.

**Concentrated customization** is how we distinctively prepare curricula and content. We work with clients to understand their challenges and capability needs for 21st century talent. Integrating your specific context, cases, and methods with the proprietary approaches of Caltech and its affiliates, makes CTME your best learning partner.

**Global delivery** is how we scale experiences and results. Going beyond online programs, we convene rotating cohorts through their company's international locations. Learners value guided facilitation and mastery where personal interactions are more productive.

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## About Caltech

Caltech is a world-renowned science and engineering institute that marshals some of the world's brightest minds and most innovative tools to address fundamental scientific questions and pressing societal challenges. Caltech prizes excellence and ambition. The contributions of Caltech's faculty and alumni have earned national and international recognition, including 39 Nobel Prizes. The Institute manages the Jet Propulsion Laboratory (JPL) for NASA.

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**contact a program advisor. 626.395.4042**

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**Nathaniel Crews**, PMP, CBAP, ACP, CSP, PRINCE2, SPC4.5, has over 35 years of experience as an application developer, systems integrator, project manager, program manager, PMO director, scrum master, and agile coach. He has managed over 30 projects, ranging from small projects to enterprise programs in aerospace, automotive, financial services, computer systems, software, and telecommunication. His specialties include feasibility assessment, cost estimation, project risk analysis, project planning and staffing, stakeholder analysis, and vendor management. He has worked with Alcatel Lucent, AT&T, Citibank, EMC, JP Morgan Chase, Lockheed Martin, Northrop Grumman, St. Joseph Hospital, Southern California Edison, and Thomson Reuters.

Mr. Crews was selected as a Technology Management Fellow by the Moore School of Engineering at the University of Pennsylvania. Mr. Crews is a Stanford University Certified Project Manager and holds several project management and technology certifications including Agile Certified Professional, Certified Scrum Master, Certified Scrum Product Owner, Project Management Professional, Advanced Project Management Certification, and Certified Business Analyst Professional.

He holds an Executive Masters in technology management from the Wharton School of Business and Moore School of Engineering, an MBA with an emphasis in finance from Widener University and a bachelor of arts in mathematics/computer science from Clark University. He is currently completing his PhD in management with an emphasis in information systems management.

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Programs, dates, fees, and instructors are subject to change.

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