



Caltech Agile Project Management Certificate Program

Winter 2023

► ctme.caltech.edu/agilepm

Register Now: Live-Online / On-Campus

Dates: JAN 14 – FEB 11, 2023

Timing: 8am – 5pm PT

Format: Public, Instructor-Led

Program Objectives

This five-day program provides agile tools and techniques for effectively and efficiently planning and managing knowledge-based projects. This is the toolset you need to meet changing customer needs and expectations, and to efficiently produce high-quality products, services, and solutions.

In a time of growing global competition, continuous innovation in technology, and incredibly short time-to-market requirements, the demand for agile and cost-effective project management has never been higher. Applications include business intelligence, data mining and warehousing, service delivery, product development, marketing, and process improvement.

Learning Objectives

The course focuses on agile, Scrum, and Kanban methodologies, as well as how to apply them to projects both within and outside the realm of software design. Participants will learn how to help teams respond to unpredictable circumstances through incremental, iterative work cadences and empirical feedback.

You will learn how to:

- Describe agile project management processes
- Articulate how agile differs from waterfall approach
- Identify project management scenarios well-suited for application of agile and lean methods
- Differentiate between agile frameworks such as Scrum, Extreme Programming (XP), and Lean, and select the most appropriate for a project

- Apply the Scrum and Kanban methods
- Assess requirements and design considerations
- Effectively manage scope uncertainty and changing customer requirements
- Drive agile scoping, project planning and estimating activities
- Track and report agile project progress
- Lead method transitions within the organization
- Improve processes continuously during the project
- Implement the Project Close process and transitioning to sustainment teams, like DevOps
- Energize 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, email a program advisor: execed@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.

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 over 40 Nobel Prizes. The Institute manages the Jet Propulsion Laboratory (JPL) for NASA.

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Customize this program for your organization-
contact a program advisor. 626.395.4045
ExecEd@caltech.edu ctme.caltech.edu

INSTRUCTORS

Nathaniel (Nate) Crews, EBAS, PMP, CBAP, ACP, CSP, PRINCE2, SPC 5.0, ATF, ACC, LITA, CAL, EMTM, SCPM, CBRMP, has over 40 years of experience as an application developer, systems integrator, project manager, program manager, PMO director, scrum master, and agile coach. He has managed over 130 projects, ranging from small projects to enterprise programs in aerospace, automotive, financial services, computer systems, software, and telecommunication. His specialties include team development, feasibility assessment, cost estimation, project risk analysis, project planning and staffing, stakeholder analysis, and vendor management.

Mr. Crews teaches at the Caltech Center of Technology and Management Education (CTME) and is an affiliate of the California Institute of Technology (Caltech).

Mr. Crews was selected as a Technology Management Fellow by the Moore School of Engineering at the University of Pennsylvania. He is a Stanford University Certified Project Manager. In addition, he 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 teaches on-site and virtually for clients worldwide like Toyota, EMC, St. Joseph Hospital, Southern California Edison, Alcatel Lucent, DIRECTV, Northrop Grumman, AT&T, JP Morgan Chase, and Citibank.

Mr. Crews holds an Executive Master's 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 Ph.D. in management with an emphasis in information systems management.



**Caltech is a Premier Authorized
Training Partner with the Project
Management Institute (PMI®).**

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

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