PD794
Agile Project Management

CEUs: 1.5
PDHs: 15
Number of Days: 2

Want to have a more adaptive process that allows you to pivot and change direction when needed? ASME's Agile Project Management course familiarizes engineering and technical professionals with Agile concepts as an emerging strategy in many companies and industries. Where traditional project management plans every detail, Agile focuses on hitting results in minimum time and the "fail fast" mantra. Companies today value the agile methodology because it is effective in situations where outcomes are uncertain and methods untested.

Using this methodology allows engineers and technical professionals to become more effective project contributors and prepares participants to manage their projects in their everyday work environment. This professional development course introduces learners to Agile Project Management using the latest PMBOK/ Agile guidelines from PMI taking advantage of practical real-world relevant examples.

The course will combine lectures, small group activities, and discussions to help students understand Agile and its place relative to traditional project management practices. As this is a highly interactive course, students are asked to participate in team-based projects and will manage a project of their choice, from its inception to completion in a matter of a few hours. This course is 100% compliant with the Project Management Institute's (PMI's®) current PMBOK and Agile materials.

By participating in this course, you will learn how to successfully:

- Employ the proper use of Agile in situations that are uncertain compared to clearly definable work.
- Analyze lean, Kanban and risk to determine what life cycles may be required.
- Evaluate project life cycles and its relevance to various projects including Predictive; Iterative; Incremental, and Agile.
- Apply various Agile tools together by exploring identification, qualification and selection steps.
- Create all components of a specific project and eliminate unnecessary steps.
- Evaluate specific project factors for future decisions.
- Implement Agile through team preparation and composition.
- Explain the process of monitoring, troubleshooting and measurements in Agile.
- Employ Agile terminology throughout the course.
- Explain Agile change management principles.
- Apply Agile concepts to the PMO development.

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Who Should Attend?
This course is primarily designed for those who have or will be assigned project management responsibilities, whether in an Agile environment or not. Any principle, project managers, program manager or entire project teams will experience a benefit from these methodologies.

As prerequisites, participants should have basic management skills, be involved or planning to become involved with project management. Participants should also have an understanding of basic accounting and budgeting skills, which will be employed in budgeting project costs and practical exercises during the course. They should have a willingness to participate actively and attentively in team-based projects.

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Day One
- Introduction, discussion of experience in agile, Uncertainty, Agile manifesto
- Lean, Kanban
    - Quiz 1

- Project life cycles: Predictive, Iterative, Incremental, Agile
    - Quiz 2
- Agile suitability filters, hybrid choices, Life cycle choices, mixing factors and tailoring
    - Quiz 3

- Agile mindset, Group Activity – Corporate preparedness

- Servant leadership, agile team composition for success
    - Quiz 4

- Group Activity – Agile team design

- Agile charter, team kickoff, Practice and terminology

Day Two
- Iterations and team value,
    - Quiz 5

- Group Activity – Generate initial scrum plan
    - Quiz 6

- Troubleshooting and measurements in agile, Group Activity – Monitor Agile PM performance tools

- Organizational change management and culture, and Contracts and procurements
    - Quiz 7

- Group Activity – Practicing negotiation

- PMO related to Agile
    - Quiz 8

- Final Agile Project in teams

- Final Agile Project Presentations and Program completion