CERTIFIED AGILE PROJECT MANAGER
PJMG6207

Course Outline

Description:
Whether in government or private industry, project managers face a huge challenge when confronted with continually changing requirements. How can you plan when the things keep changing? Traditional project management approaches suggest that we take a snapshot of the requirements as a baseline, and then use change control in an attempt to minimize the impact of any shifting requirements. Sometimes, however, these changes are a reality that the project sponsor has to accommodate. The new Agile Project Management methods help deal with these situations.

Participants in this virtual 5 day session will learn the techniques of Agile Project Management through simulations and examples from real-world projects that used these methods to control changing requirements.

This course is designed to meet the educational requirements for both the PMI Agile Certified Practitioner (PMI-ACP), the Certified Agile Project Manager (Cert.APM), and the Scrum Master Certification (SMC) exams.

Course Goals:

To provide experienced project managers with advanced understanding of the principles and techniques of agile project management, so that they will be able to identify situations where agile techniques may add value and begin to apply the techniques to reduce overall project risk on high change projects.

Course Objectives: At the completion of this course, the student will be able to:
- Identify projects where agile methods are beneficial and those where they are not
- Describe how agile methods align with typical project governance models
- Fully describe the Scrum method, its roles, artifacts and ceremonies
- Prepare a project schedule and budget for an agile project when the scope is still uncertain
- Use metrics to track project performance and accurately forecast future outcomes

Evaluation:

This is a graded course where a complete or incomplete will be issued. In order to receive completion for this course, a student must **attend 100% of class time** A grade report can be printed from myWCS.

Code of Student Conduct:

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed, and set out the disciplinary procedures that the University will follow. For the complete Code of Student Conduct: http://www.uwo.ca/univsec/pdf/board/code.pdf.

Course Topics:

What is Agile and What's In It for Me?
- The Evolution of Systems Development Lifecycles (SDLCs)
- Iterative and Incremental Development
- The Agile Philosophy
- Agile Benefits and Costs
- Which Projects Are Suited to Agile Methods?
- Choosing the Right Approach for a Specific Project

Common Agile Methods
- An Overview of the Scrum Method
- An Overview of the Open Unified Process

Agile Governance
- Aligning Agile Methods with Standard Governance Processes
- Contrasting Scrum and the Open Unified Process

Common Agile Methods (cont'd)
- Review the Scrum Method
- Review the Open Unified Process
- An Overview of Extreme Programming
- An Overview of Lean Development
- An Overview of Feature-Driven Development
- An Overview of Dynamic Systems Development Method

Agile Requirements Management
- Agile Requirements Management
- 3-Step Process for Scope Prioritization
- Backlog Maintenance Procedures
- Agile Scope Change Management

Agile Estimating and Planning
- Rolling-Wave Planning & The 3-Levels of Agile Planning
- Agile Estimating Approaches
- Preparing a High-Level Project Schedule (Agile Release Planning)
- Agile Fast Tracking

Agile Estimating and Planning
- Agile Iteration Planning
- A Day in the Life of a Disciplined Agile Team
- Simulation Case Study

Communications
- Agile Documentation
- Stakeholder Management
- Applying this in your Own Work Environment

Agile Quality Assurance
Metrics and Status Reporting
- Project Schedule and Financial Status Tracking & Forecasting (manual vs. tools)
- Iteration Schedule and Financial Status Tracking & Forecasting (manual vs. tools)
- Case Study

How to Determine if Your Team is Agile

Certified Agile Project Manager exam:

Students will have the opportunity to write the Certified Agile Project Manager exam once the course has completed. This will be facilitated online through PMAC and students will have up to 30 days from course completion to write the exam.

Course outline is a sample only and is subject to change.