

Program Title:	<b>PMP plus Six Sigma Green Belt Certification</b>
Program ID:	#1079805
Program Cost:	\$6,800
Duration:	97.5 hours

## Program Description

The PMP plus Six Sigma Green Belt Certification program is a complete training offering for professionals who are qualified to sit for PMI's (Project Management Institute's) PMP® Exam. It includes two classes:

- 1. Lean Six Sigma Green Belt class:** an 8 Day class that teaches the history of Six Sigma and Lean and teaches the tools of Lean used in the minimization of waste in business process while maximizing effectiveness and efficiency. A significant class project is undertaken to apply the tools of Lean. A Value Stream Mapping (VSM) exercise is elaborated as the class explores various topics. The class presents solutions to the instructor on the final day and the Certification Exam is administered.
- 2. Advanced Project Management Class:** an intensive 5 Day course designed to provide students with all the training necessary to pass PMI's (Project Management Institute) PMP® Exam, along with a clear understanding of how those concepts translate to the 'real world' of being a project manager. Class project will include a custom approach centering on one of many project types.

## Who should take this program?

This course is intended for professionals who are eligible for the PMP Exam and have the desire to learn the valuable tools taught in the three classes. Prospective students will be able to combine project management skills with Lean skills reducing the time to experience immediate and sustained improvement to project and portfolio performance.

## Why WGA?

WGA has distinguished itself in the market as a training provider that brings real-world experience to the classroom. WGA develops its own proprietary training materials with dedicated curriculum developers and instructors who are also practicing consultants. All instructors of this material have at least 20 years of senior experience managing projects. They have the ability to not only teach but to coach each student as the classes progress. WGA uses quality assurance and quality control as tools of continuous improvement in the training offerings we provide.

## **Class 1: Lean Six Sigma Green Belt**

### **8 Day Class Curriculum**

#### **Week 1**

1. Six Sigma Overview
2. Introduction to Lean Principles
3. Lean Six Sigma Roadmap Tools

#### **DMAIC**

4. Define
  - Project Definition and Scope
  - Project Objectives
  - Project Charter
  - Current State
  - Process Mapping
  - Value Stream Mapping
5. Measure
  - Statistical methods
  - Data Collection
  - Leadership skills
  - Project Planning

#### **Week 2**

6. Analyze
    - Process Analysis
    - Graphical Data Analysis
    - Statistical Data Analysis
    - FMEA
  7. Improve
    - Develop Solutions
    - Test Solutions
  8. Control
    - Develop Controls
    - Statistical Process Control
    - Lessons learned documentation
- Students will take the Lean Six Sigma Green Belt Exam

## **Class 2: Advanced Project Management Training**

### **5 Day PMP® Class Curriculum**

#### **Day 1**

##### **1. Introduction and PMP Exam overview**

*Learning objectives:*

- Learn about the PMI application process
  - Overview the PMP Exam details
  - Learn exam-taking tools and techniques
  - How to enroll in the PMP Exam
  - Identify exam preparation key methodologies
- Students take Baseline Assessment test

##### **2. The Project Management Framework**

*Learning objectives:*

- Understand definition of project and project management
  - Understand the 9 project management knowledge areas
  - Define process and a project life cycle
  - Identify and define project stakeholders
  - Specify influences of organizational structures on project management
  - Highlight the skills required for a project manager
  - Define the Project Manager's responsibilities
  - Identify social-economic environmental influences to projects
  - Define the 5 process groups of project management
- Exam Practice Questions and Solutions Class Discussion
  - Summary of concepts and approaches to questions for the PMP Exam

##### **3. Project Integration Management**

*Learning objectives:*

- Define the project manager's role as integrator
  - Control "gold plating" through work authorization
  - Understand the value of documenting lessons learned
  - Define the elements and importance of the Project Charter
  - Create a Project Management Plan
  - Define the Execution of the Project Management Plan
  - Know the use of baselines to monitor the progress of the project
  - Define integrated change control
  - Understand project closure
- Exam Practice Questions and Solutions Class Discussion
  - Summary of concepts and approaches to questions for the PMP Exam

#### **Day 2**

##### **1. Project Scope Management**

*Learning objectives:*

- Identify project constraints
- Development of a Scope Management Plan
- Development of a Project Scope Statement
- Development of a Work Breakdown Structure (WBS)
- Implementing scope verification
- Controlling scope creep
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam
- Project Simulation: Case Study

## **2. Project Time Management**

*Learning objectives:*

- Methods for developing a schedule
- Developing network diagrams and understanding dependencies
- Duration estimation
- Calculating the critical path(s) for the project
- Calculating total float and free float of activities
- Crashing and fast tracking a project and resource leveling
- Developing a Schedule Management Plan
- Controlling a schedule
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam
- Project Simulation: Case Study

## **Day 3**

## **3. Project Cost Management**

*Learning objectives:*

- Resource Planning
- Cost estimating through analogous estimating, bottom up estimating, parametric estimating and computerized estimating tools
- Earned value analysis
- Order of Magnitude, Budget and Definitive estimates
- Calculating Present Value, Net Present Value, Internal Rate of Return, Payback Period, Benefit Cost Ratio and Opportunity Cost
- Variable Cost, Fixed Costs, Direct Cost and Indirect Cost
- Project Life Cycle Costing
- Value Engineering
- Controlling cost
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam
- Project Simulation: Case Study

## **4. Project Quality Management**

*Learning objectives:*

- Responsibility for quality
  - Impacts of poor quality
  - Tools used for Quality Management Planning
  - Developing a Quality Management Plan
  - Implementing Quality Assurance
  - Quality Control through Fishbone Diagram, Pareto Diagram, and Control Chart
- Exam Practice Questions and Solutions Class Discussion
  - Summary of concepts and approaches to questions for the PMP Exam

## Day 4

### 5. Project Human Resources Management

*Learning objectives:*

- Roles and responsibilities for Project Manager, Team Members, Project Sponsor and Senior Management
  - Organizational planning
  - Staff acquisition
  - Developing a responsibility chart
  - Team building
  - Leadership skills
  - Human resource constraints
  - Conflict management and resolution
- Exam Practice Questions and Solutions Class Discussion
  - Summary of concepts and approaches to questions for the PMP Exam
  - Team Building Class Exercise

### 6. Project Communication Management

*Learning objectives:*

- Developing a communications plan
  - Communication methods
  - Communication blockers
  - Performance reporting
  - Administrative closure
- Exam Practice Questions and Solutions Class Discussion
  - Summary of concepts and approaches to questions for the PMP Exam

## Day 5

### 7. Project Risk Management

*Learning objectives:*

- Developing a Risk Management Plan
- Techniques for identifying and categorizing risks
- Qualitative and Quantitative risk analysis
- Using a decision tree
- Developing risk response strategies and plan

- Risk monitoring and control
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam
- Project Simulation: Case Study

## **8. Project Procurement Management**

*Learning objectives:*

- Procurement planning
- Advantages and disadvantages of contract type selection
- Solicitation planning and execution
- Source selection
- Contract negotiation and administration
- Contract change control and close-out
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam

## **9. Stakeholder Management**

- Identify Stakeholders
- Plan Stakeholder Management
- Manage Stakeholder Engagement
- Control Stakeholder Engagement

## **10. PMI's Code of Ethics and Professional Conduct for Project Management Professionals**

*Learning objective:*

- Thorough understanding PMI's expectations of conduct
- Exam Practice Questions and Solutions Class Discussion
- Summary of concepts and approaches to questions for the PMP Exam

## **11. Students take Verification Assessment Test**

## **12. Graduation/Certificate of Completion**

### **Follow-on Assistance**

- 1. Students receive Assessment test scores and personalized study recommendations.**
- 2. Instructors are available via e-mail for questions/clarification/coaching until they take the PMP® exam.**