

**Course: Project Management & Systems Architecture****ID:** 1384-PMSA1**Contact Hrs / PDUs:** 28**Course Length:** 4 Days

**Course Description:** This four-day course is an intensive laboratory designed to take participants through the process of developing a software application from start to finish using the best practices in project management and object oriented software development. At the end of the course, participants will have experienced every phase of development from conceptualization and requirements development to acceptance testing and sign-off. Special emphasis is placed on change management.

**Course Objectives:**

- Learn development methodologies aligned with Object Oriented Development
- Learn practical application of Object Oriented Development
- Learn the roles and responsibilities of the lead architect and project manager in an Object Oriented environment
- Learn to effectively deliver real results in a short time frame using industry best practices
- Learn core IT leadership skills

**Target Audience:** This course is best suited for experienced IT professionals who are transitioning or requiring project management skills.

**Prerequisites:** None**Provided Material:**

- Course Manual
- Object Oriented Design & Application (Book)

**Course Outline:**

- **Lesson 1:** Introductions
  - Current PM performance
  - What makes projects succeed or fail?
  - What knowledge do you need to succeed?
  - 6 things every project must have
  - Hard vs. soft skills, how do you measure up?
- **Lesson 2:** The Systems Architect & the PM, a tale of two worlds...
  - What is the role of the Systems Architect
  - What are the key measures of a good SA
  - What is the Role of the Project Manager
  - What are the key measures of a good PM
  - Can the SA & PM coexists
  - Can one person serve both roles
- **Lesson 3:** The basics of Systems Architecture in a modern IT environment
  - The basic tenants of a sound architecture
  - Who has time to do it right
  - The most common mistakes of SAs
  - Who should own the architecture
  - How does OO fit into the SA role
- **Lesson 4:** Object Oriented Design & Development
  - Understanding the key terms of OO
  - Is there just one way to do OO
  - The core tools & techniques of OO
  - Applying OO to different environments
  - OO & development methodologies
  - Why OO makes sense
  - Most common mistakes with OO
  - The keys to success with OO
- **Lesson 5:** OO & modeling
  - Practical application of OO
  - Testing your OO knowledge
  - Modeling a system using OO
- **Lesson 6:** The Basics of Project Management
  - The PM process areas
  - Processes vs. methodologies why care?
  - The PM knowledge areas
  - How does it all fit together?
  - Project selection methods
  - The basic steps of PM
  - Starting a project (Charters, Charters, Charters)
  - Your Statement of Work (SOW)
- **Lesson 7:** Stakeholder Management
  - Finding your sponsor
  - Who are your key stakeholders
  - Determining how and when to deal with stakeholders
  - Tools for effective stakeholder management
- **Lesson 8:** The Work Breakdown Structure (WBS)
  - What is the WBS
  - Activities vs. work packages
  - Key tests for your WBS
  - Understanding Displayed Thinking
- **Lesson 9:** Developing Effective Budgets And Schedules
  - The types of estimating (when and where to use them)
  - When to use Network Diagrams, Gantt Charts and other tools
  - Understanding the triple constraints
  - PERT Analysis
  - Critical Path identification
  - Bringing resources into the mix
  - Are you planning for Brooke's Law?
  - Critical Path vs. Critical Chain which is right for you?
- **Lesson 10:** Performance Monitoring & Control (execution, execution, execution)
  - Stage-gate management
  - Key performance metrics for all projects
  - Making effective use of Earned Value
  - Status reports and status meetings
  - Stakeholders during performance
  - Scope change management



Looking Glass Development, LLC

P.O. Box 630516 Littleton, Colorado 80163-0516 303 663.5402

www.lookingglassdev.com

information@lookingglassdev.com