

# Implementing Microsoft Office Project Server 2007

Course GWE50017A0: Five days; Instructor-Led



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## Introduction

This five-day instructor-led course provides students with the knowledge and skills to install, customize, and administer Microsoft Office Project Server 2007.

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## Audience

This course is intended for IT architects who need to help with Project Server 2007 implementation. "IT architect" is an overarching term to cover the following roles:

- IT infrastructure lead
- System administrator
- Database administrator
- Deployment specialist
- Application developer (for this course, limited information)

This is NOT for business people, project managers, analysts, or PMOs, unless they manage the IT items of Project Server 2007.

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## At Course Completion

After completing this course, students will be able to:

- Describe the Project Server 2007 architecture and Windows SharePoint Services topology alternatives.
- Practice installing a single server environment for Project Server 2007 .
- Understand application security for Project Server 2007.
- Describe the various IT roles needed for implementing Project Server 2007 and understand the work those roles will perform for Project Server 2007.
- Understand how the IT architect works with the business architect for Project Server 2007.
- Understand the data elements and alternatives for customization of Project Server 2007.
- Describe end-user deployment requirements and options.
- Understand IT administration, operations, and maintenance of Project Server 2007.

- Describe IT concerns and work for migrating to Project Server 2007 from Project Server 2003.
- Understand troubleshooting the system.
- Describe alternatives for scalability and availability for Project Server 2007.
- Practice in a hands-on environment.

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## Prerequisites

None.

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## Course Outline

### Module 1: Project Server 2007 Introduction and Installation

#### Lessons

- Current Workshop Introduction
- Introduction of the Microsoft Office Project 2007 Enterprise Project Management (EPM) Solution
- Project Server 2007 Setup
- Homework and 1-Hour Instructor Q&A

#### Lab 1: Plan Architecture

- Practice planning an organization's architecture using the Architecture Plan document

#### Lab 2: Installation (Single Server)

- Practice installing a single-server instance of Project Server 2007
- Understand the areas in a Windows SharePoint Services Farm you will use for installation
- Practice using the published Microsoft documentation for an installation

#### Lab 3: Microsoft SQL Reporting Services Web Parts

- Practice installing the SQL Reporting Services (SQL 2005) Web parts for Project Server 2007
- Practice hooking up SQL Reporting Services 2005 to the SQL Reporting Services Web parts so you can build SQL Reporting Services reports

#### Lab 4: OLAP

- Practice installing the components needed for the OLAP cube to work with Project Server 2007 using Analysis Services 2005 and build the OLAP cube

After completing this module, students will be able to:

- Understand the objectives, workshop outline, format, and audience for the Project Server 2007 IT architect class.
- Meet instructors and fellow students and describe expectations.
- Understand the Project Server 2007 EPM solution for the IT architect and others in the organization.
- Describe Project Server 2007 architecture at a high level.
- Understand the IT architect role and how it works with different roles using Project Server 2007, including the business architect.
- Demo the key elements of Project Server 2007 for the IT architect.
- Introduce the use case scenario approach.
- Review various Project Server 2007 organizational scenarios.

- Understand pre-installation tasks and considerations.
- Describe setup and provisioning process and steps.
- Describe post set up and provisioning process and steps.
- Describe post set up and provisioning checks and initial system configuration.
- Understand multiple server installation issues and steps.
- Practice a single-server Project Server 2007 installation.

## **Module 2: Data Migration and Application Security**

### **Lessons**

- Debrief from Day One
- Migration
- Application Security
- Homework and 1-Hour Instructor Q&A

### **Lab 5: Data Migration Exercise**

- Practice migrating an existing Windows SharePoint Services 2.0 workspace to Windows SharePoint Services 3.0
- Practice performing a data migration of Project Server 2003 to Project Server 2007

### **Lab 6: Forms Authentication Exercise**

- Practice setting up forms authentication by setting up five forms-authenticated users

After completing this module, students will be able to:

- Understand the various migration paths for Project Server 2007 to help an organization decide on how it would like to migrate its data.
- Understand what is involved with migrating from Project Server 2003.
- Understand the security architecture.
- Understand user authentication methods for Project Server 2007.
- Understand Project Server 2007 and Windows SharePoint Services security synchronization.
- Describe security model components.
- Understand how groups (roles), users, views, categories, and other security components play in security model of Project Server 2007.
- Validate an organization's security model requirements.
- Practice setting up forms authentication.

## **Module 3: Project Server 2007 Architecture**

### **Lessons**

- Debrief from Day Two
- End-User Deployment
- Windows SharePoint Services Farm Topology and Administration
- Project Server 2007 Architecture
- Homework and 1-Hour Instructor Q&A

### **Lab 7: Project Professional Exercise**

- Review the customization options for Microsoft Office Project Professional

### **Lab 8: Windows SharePoint Services-Central Administration (CA) Exercise**

- Explore CA
- Create a new Project Web access site

#### **Lab 9: Configuration and Architecture Exercise**

- Practice creating an initial Project Server 2007 configuration
- Describe elements of Project Server 2007 architecture

After completing this module, students will be able to:

- Understand end-user client options.
- Describe prerequisites for client deployment.
- Determine how to deploy clients.
- Understand how Windows SharePoint Services and Project Server 2007 integrate.
- Review new Windows SharePoint Services capabilities.
- Describe Windows SharePoint Services administrator capabilities.
- Describe in-hosting versus out-hosting.
- Practice using CA.
- Understand the components of the Project Server 2007 architecture.
- Review architecture components for scalability.
- Understand the purpose of the PSI.
- Describe the Queuing and Eventing services.
- Understand the purpose of each of the Project Server 2007 databases.
- Describe why Project Professional is more efficient in Project Server 2007.

#### **Module 4: Project Server 2007 Support**

##### **Lessons**

- Debrief from Day Three
- Troubleshoot the System
- Administration, Tools, Operations, and Maintenance
- Homework and 1-Hour Instructor Q&A

##### **Lab 10: Troubleshooting**

- Practice reviewing various troubleshooting areas in Project Server 2007

##### **Lab 11: Operations and Maintenance**

- Practice reviewing various areas for maintenance and administration in Project Server 2007

After completing this module, students will be able to:

- Review Microsoft Office 2007 EPM solution troubleshooting concepts.
- Identify tools available for troubleshooting.
- Understand troubleshooting areas, issues, and methods.
- Understand issues to be considered for continued successful operation of Project Server 2007.
- Archive.
- Understand disaster recovery.
- Backup and restore.
- Understand requirements for operations and maintenance.

- Review considerations for performance monitoring.

## **Module 5: Scalability, Availability, and Customization**

### **Lessons**

- Debrief from Day Four
- Scalability and Availability
- Data and Extensibility
- Wrap Up
- Homework

### **Lab 12: Web Parts and Templates**

- Practice adding a custom Web part to a Project Web access page
- Practice creating a project workspace template

After completing this module, students will be able to:

- Develop a common definition for scalability and availability and an understanding of how performance relates to both.
- Understand the differences between Project Server 2003 and Project Server 2007 in respect to scalability and availability.
- Examine hardware bottleneck differences and any changes to recommended growth approaches.
- Review the various development technologies and focus areas for custom development and extensibility on the Project Server 2007 platform.
- Understand in more detail the reporting database and integration with SQL Reporting Services.
- Review the information available in the software development kit (SDK).

Note: This is not a developer's session. The purpose is to understand the customization areas in a bit more detail, and the pros and cons of using them.