

Course Outline

50048 -Enterprise Search Solution Architect Workshop



Duration: 2 days (12 hours)

Target Audience:

This course is intended for experienced technical and solution architects who have a minimum of four years experience with Microsoft Office SharePoint Server 2007.

Prerequisites:

Before attending this course, students must have:

- At least two years working with SharePoint Products and Technologies, in any of the following roles:
 - Solution Architect
 - Technical Architect
- At least two years practical experience as a lead developer (or provided architectural guidance to lead developers) in development projects for SharePoint Products and Technologies
- Technical expertise in Microsoft Office SharePoint Server 2007
- At least six months combined experience as a technical and solution architect for Microsoft Office SharePoint Server 2007 projects.
- Led consulting engagements that are focused on the search technologies of Microsoft Office SharePoint Server 2007.
- Experience gathering and analyzing customer experience.
- Completed course 5060A: Implementing Windows SharePoint Services 3.0
- Completed course 5061A: Implementing Microsoft Office SharePoint Server 2007

Topics Covered:

- Module 1: Enterprise Search Architecture
 - Enterprise Search Overview
 - Enterprise Search Physical Architecture
 - Enterprise Search Architectural Processes
 - Information Architecture and Search
 - Lab 1: Enterprise Search Architecture
 - Exercise 1: Defining Functional Requirements for Enterprise Search Solutions
 - Exercise 2: Identifying Physical Requirements for Enterprise Search Solutions
 - Exercise 3: Designing Enterprise Search Schemas

After completing this module, students will be able to:

- Describe the business requirements and goals for enterprise search solutions, and how components in the search technology landscape can be used to achieve those goals and satisfy those requirements.

- Describe the physical architecture of the enterprise search technologies provided by Microsoft Office SharePoint Server 2007.
- Describe the logical architecture of enterprise search technologies in Microsoft Office SharePoint Server 2007 server farms.
- Explain how information architecture and search architecture combine to shape search solutions.

➤ Module 2: Architectural Patterns for Enterprise Search Solutions

- Departmental Search
- People Search
- Internet Site Search
- Business Data Search
- Multilingual Search
- Enterprise Search
- Geographically Dispersed Search
- Patterns for Extending Search

After completing this module, students will be able to:

- Describe typical search scenarios.
- Identify appropriate architectural patterns to meet the requirements of typical search scenarios.

➤ Module 3: Performance Tuning and Optimization for Enterprise Search

- Enterprise Search Physical Characteristics
- Architecting Enterprise Search for Non-Functional Requirements
- Optimizing Enterprise Search Deployment Architectures
- Optimizing Search Relevance
 - Lab 3: Performance Tuning and Optimization for Enterprise Search Solutions
 - Exercise 1: Monitoring Enterprise Search Performance
 - Exercise 2: Defining a Scaling Strategy for Enterprise Search
 - Exercise 3: Tuning Relevance

After completing this module, students will be able to:

- Describe enterprise search physical characteristics.
- Architect enterprise search for non-functional requirements.
- Optimize enterprise search deployment architectures.
- Optimize search relevance.

➤ Module 4: Capacity Planning for Enterprise Search Solutions

- Analyzing Enterprise Corporuses
- Planning for Index Catalog Files
- Planning for Search Databases
 - Lab 4: Capacity Planning for Enterprise Search Solutions
 - Exercise 1: Analyzing the Enterprise Corpus
 - Exercise 2: Planning Capacity for Index Catalog Files
 - Exercise 3: Planning Capacity for the Search Databases

After completing this module, students will be able to:

- Analyze enterprise corporuses.
- Plan for index catalog files.
- Plan for search databases.

➤ Module 5: Indexing Enterprise Data

- Business Data Catalog Content Sources
- Business Data Catalog Security
 - Lab 5: Indexing Enterprise Data

- Exercise 1: Creating Business Data Catalog Applications for Search
- Exercise 2: Indexing Business Data Catalog Application
- Exercise 3: Searching Business Data Catalog Data

After completing this module, students will be able to:

- Describe the architecture of indexing line-of-business data through the Business Data Catalog.
- Explain the architectural issues around Business Data Catalog security for search solutions.

➤ Module 6: Architecting and Developing Search Solutions

- Customizing Search Center
- Extending Search Center
- Custom Search Scenarios in SharePoint Sites
- Adding Enterprise Search Capabilities to Non-SharePoint Solutions
- Developing Custom Security Trimmers
 - Lab 6: Architecting and Developing Search Solutions
 - Exercise 1: Implementing URL-based Queries
 - Exercise 2: Creating Query and Result Web Parts
 - Exercise 3: Developing with the Query Web Service

After completing this module, students will be able to provide architectural guidance to developers on:

- Customizing Search Center.
- Extending Search Center.
- Creating custom search scenarios in SharePoint sites.
- Adding enterprise search capabilities to non-SharePoint solutions.
- Developing custom security trimmers