

20339-2-A: Advanced Technologies of SharePoint 2016

OBJECTIVE

This course will teach you how to plan, configure, and manage the advanced features in a SharePoint 2016 environment. The special areas of focus for this course include implementing high availability, disaster recovery, service application architecture, and Microsoft Business Connectivity Services. This course also focuses on social computing features, productivity, and collaboration platforms and features. Students also will learn about business intelligence solutions, Enterprise Content Management, web content management infrastructure, solutions, and apps. This course also covers how to develop and implement a governance plan, and how to perform an upgrade or a migration to SharePoint 2016.

This is the second in a sequence of two courses for IT Professionals and is aligned with the SharePoint 2016 IT Pro certification.

COURSE TOPICS

Module 1: Introduction to SharePoint 2016

This module describes the core architectural components of a SharePoint Server environment, and also helps to identify the new deprecated and removed features in SharePoint 2016.

Lessons

- Core components of the SharePoint 2016 architecture
- New, deprecated, and removed features in SharePoint 2016
- SharePoint 2016 and SharePoint Online editions

After completing this module, students will be able to:

- Describe the architectural features of a Microsoft-SharePoint 2016.
- Identify the new, deprecated, and removed features in SharePoint 2016.
- Describe the editions for SharePoint 2016 on-premises and Microsoft SharePoint Online.

Module 2: Introduction to hybrid scenarios for SharePoint 2016

This module describes the key hybrid features in SharePoint 2016, and helps you to prepare for a hybrid SharePoint 2016 deployment.

Lessons

- Exploring the hybrid features in SharePoint 2016
- Preparing for a hybrid SharePoint 2016 deployment

After completing this module, students will be able to:

- Describe the key hybrid features in SharePoint Server 2016.
- Prepare for a hybrid SharePoint 2016 deployment.

Module 3: Designing business continuity management strategies

This module explains how to select an appropriate database server configuration to meet availability requirements. It also describes how to design a physical architecture and infrastructure to meet high-availability requirements. Finally, this module explains how to develop and implement a backup and restore strategy.

Lessons

- Designing database topologies for high availability and disaster recovery
- Designing a SharePoint infrastructure for high availability
- Planning for disaster recovery

After completing this module, students will be able to:

- Select an appropriate database server configuration to meet availability requirements.
- Design a physical architecture and infrastructure to meet high-availability requirements.
- Develop and implement a backup and restore strategy.

Module 4: Planning and implementing Business Connectivity Services and Secure Store Service

This module explains how to configure Business Connectivity Services (BCS), and describes how to configure and manage the Secure Store Service application. It also explains how you can configure and manage BCS models.

Lessons

- Planning and configuring BCS
- Configuring the Secure Store Service
- Managing BCS models

After completing this module, students will be able to:

- Plan and Configure Business Connectivity service application.
- Plan and configure the Secure Store Service application.
- Manage the Business Data Connectivity models.

Module 5: Configuring productivity services for a SharePoint 2016 deployment

This module describes SharePoint Add-in architecture. This module also explains how to provision and manage SharePoint apps and App Catalogs. Additionally, this module describes how to provision Microsoft Access Services, Visio Services, Word Automation Services, PowerPoint Automation Services, and SharePoint Translation Services.

Lessons

- Understanding the SharePoint Add-in architecture
- Provisioning and managing apps and App Catalogs
- Provisioning productivity services

After completing this module, students will be able to:

- Describe Microsoft SharePoint Add-ins and the supporting SharePoint infrastructure.
- Provision and configure SharePoint Add-ins and App Catalogs.
- Manage how apps are used within a SharePoint 2016 deployment.

Module 6: Managing solutions in Microsoft SharePoint 2016

This module describes the purpose and structure of SharePoint 2016 features and solutions. In addition, it explains how to manage sandbox solutions in Microsoft SharePoint 2016.

Lessons

- Understanding the SharePoint 2016 solution architecture
- Managing sandboxed solutions

After completing this module, students will be able to:

- Manage features and solutions in Microsoft SharePoint 2016
- Manage sandboxed solutions in a SharePoint 2016 deployment.

Module 7: Connecting people

This module explains how to manage user profiles and how to plan and configure My Site and social features. This module also describes how to configure community sites.

Lessons

- Managing user profiles
- Enabling social interaction
- Building communities

After completing this module, students will be able to:

- Manage user profiles in Microsoft SharePoint 2016 and configure user profile synchronization by using Microsoft Identity Manager (MIM) 2016.
- Enable social interaction in SharePoint 2016.
- Build communities and community sites in SharePoint 2016.

Module 8: Planning and configuring web content management

This module explains how to plan and configure a web content management infrastructure to meet business requirements. This module also describes how to configure managed navigation and product catalog sites, and how to configure support for multilingual sites. Additionally, it explains and how to plan and manage design and customization for publishing sites, and how to plan and configure support for mobile users.

Lessons

- Planning and implementing a web content management infrastructure
- Configuring managed navigation and catalog sites
- Supporting multiple languages and locales
- Enabling design and customization
- Supporting mobile users

After completing this module, students will be able to:

- Plan and configure a web content management infrastructure.
- Configure managed navigation and product catalog sites.

- Plan and Configure support for multilingual sites and locales.
- Manage design and customization for publishing sites.
- Plan and configure support for mobile users.

Module 9: Planning and configuring Enterprise Content Management

This module explains how to plan for management of content and documents, and how to plan for and configure eDiscovery. Additionally, it describes how to plan for records management and compliance.

Lessons

- Planning Enterprise Content Management
- Planning and configuring eDiscovery
- Planning records management

After completing this module, students will be able to:

- Plan how to manage content and documents.
- Plan and configure eDiscovery.
- Plan records management and compliance.

Module 10: Planning and configuring business intelligence solutions

This module explains how to plan business intelligence (BI) architecture for SharePoint 2016, and how to deploy and manage BI services. Additionally, this module explains how to plan and configure advanced analysis tools.

Lessons

- Planning BI architecture
- Planning, deploying, and managing BI services
- Planning and configuring advanced analysis tools

After completing this module, students will be able to:

- Explain the Microsoft SharePoint business intelligence (BI) architecture, its components, and plan for business intelligence.
- Plan, deploy, and manage the core Microsoft SharePoint 2016 BI services.
- Configure the advanced BI options available in SharePoint 2016 and Microsoft SQL Server 2014.

Module 11: Planning and configuring productivity and collaboration

This module explains how to plan and configure productivity and collaboration features. This module also explains how to plan and configure composite solutions in SharePoint 2016.

Lessons

- Planning and configuring collaboration features
- Planning and configuring composites

After completing this module, students will be able to:

- Describe how to plan and configure SharePoint collaborative and coauthoring options.
- Configure project sites and engage teams.
- Plan and configure composites.
- Configure workflows in SharePoint 2016.

Module 12: Upgrading and migrating to SharePoint 2016

This module explains how to prepare for upgrade or migration to SharePoint 2016. In addition, it explains how to manage site collections and how to upgrade them to SharePoint 2016. Finally, the module describes how to upgrade advanced content from SharePoint Server 2013 to SharePoint 2016.

Lessons

- Preparing for an upgrade or migration
- Upgrade to SharePoint 2016
- Planning and managing a site-collection upgrade

After completing this module, students will be able to:

- Plan and prepare for an upgrade.
- Perform upgrades to data and service applications.
- Upgrade site collections.
- Upgrade advanced content from SharePoint Server 2013 to SharePoint 2016.

PREREQUISITES

An ideal candidate for this course must have at least one year experience with deploying and administering multiple SharePoint Server 2013 farms across a large enterprise. The candidate should have completed Course 20339-1A: Planning and Administering Microsoft SharePoint 2016, or should demonstrate equivalent skills.

Before attending this course, students must demonstrate the following skills:

- At least a one-year experience of mapping business requirements to both logical and physical technical designs.
- Working knowledge of network design, including network security.
- Software management experience in a Windows Server 2012 R2 enterprise server or Windows Server 2016 environment.
- Deploying and managing applications natively, virtually, and in the cloud.
- Administering IIS.
- Configuring AD DS for use in authentication and authorization, and as a user store.
- Managing an application remotely by using Windows PowerShell 2.0 or later.
- Connecting applications to SQL Server.
- Implementing claims-based security.

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

24 Hours (in 3 days)

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course.