55348: Administering Microsoft® Endpoint Configuration Manager

Duration: 5 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

In this course, participants will learn day-to-day management tasks. These include how to manage applications, client health, hardware and software inventory, operating system deployment, and software updates by using Configuration Manager. They also will learn how to optimize Endpoint Protection, manage compliance, and create management queries and reports.

NOTE: *This course is the Community Courseware equivalent of retired MOC 20703-1B: Administering Microsoft Endpoint Configuration Manager. Although this course and the associated labs are written for Microsoft Endpoint Configuration Manager and Windows® 11, the skills taught will also be backwards compatible with previous editions of System Center Configuration Manager and Windows 10.*

Target Audience

This course is intended for:

- Experienced Information Technology (IT) professionals.

Prerequisites

To attend this course, candidates must have:

- Knowledge of the following:
  - o Networking fundamentals, including common networking protocols, topologies, hardware, media, routing, switching, and addressing.
  - o Active Directory® Domain Services (AD DS) principles and fundamentals of AD DS management.
  - o Installation, configuration, and troubleshooting for Windows-based PCs (Personal Computers).
  - o Basic concepts of Public Key Infrastructure (PKI) security.
- Basic understanding of scripting and Windows PowerShell syntax.
- Basic understanding of Windows Server roles and services.
- Basic understanding of the configuration options for iOS and Android Mobile device platforms.

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Course Objectives

Upon successful completion of this course, attendees will be able to:

- Describe the features Configuration Manager and Intune include and explain how they can use these features to manage PCs and mobile devices in an enterprise environment.
- Analyse data by using queries and reports.
- Prepare a management infrastructure, including configuring boundaries, boundary groups, and resource discovery, and integrating mobile-device management with Intune.
- Deploy and manage the Configuration Manager client.
- Configure, manage, and monitor hardware and software inventory, and use Asset Intelligence and software metering.
- Identify and configure the most appropriate method to distribute and manage content used for deployments.
- Distribute, deploy, and monitor applications for managed users and systems.
- Maintain software updates for PCs that Configuration Manager manages.
- Implement Endpoint Protection for managed PCs.
- Manage configuration items, baselines, and profiles to assess and configure compliance settings and data access for users and devices.
- Configure an operating-system deployment strategy by using Configuration Manager.
- Manage and maintain a Configuration Manager site.

Course Topics

Module 1: Managing Computers and Mobile Devices in the Enterprise

- Overview of Systems Management by Using Enterprise Management Solutions
- Overview of the Configuration Manager Architecture
- Overview of the Configuration Manager Administrative Tools
- Tools for Monitoring and Troubleshooting a Configuration Manager Site

Module 2: Analysing Data Using Queries, Reports, and CMPivot

- Introduction to Queries
- Configuring SQL Server Reporting Services
- Analysing the Real-Time State of a Device by Using CMPivot

Module 3: Preparing the Configuration Manager Management Infrastructure

- Configuring Site Boundaries and Boundary Groups
- Configuring Resource Discovery
- Organizing Resources Using Device and User Collections

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Course Topics *Continued*

Module 4: Deploying and managing the Configuration Manager Client

- Overview of the Configuration Manager Client
- Deploying the Configuration Manager Client
- Configuring and Monitoring Client Status
- Managing Client Settings and Performing Management Operations

Module 5: Managing Inventory for PCs and Applications

- Overview of Inventory Collection
- Configuring Hardware and Software Inventory
- Managing Inventory Collection
- Configuring Software Metering
- Configuring and Managing Asset Intelligence

Module 6: Distributing and Managing Content Used for Deployments

- Preparing the Infrastructure for Content Management
- Distributing and Managing Content on Distribution Points

Module 7: Deploying and Managing Applications

- Overview of Application Management
- Creating Applications
- Deploying Applications
- Managing Applications
- Deploying and Managing Windows Apps

Module 8: Maintaining Software Updates for Managed PCs

- The Software Updates Process
- Preparing a Configuration Manager Site for Software Updates
- Managing Software Updates
- Configuring Automatic Deployment Rules
- Monitoring and Troubleshooting Software Updates
- Enabling Third-Party Updates

Module 9: Implementing Defender Protection for Managed PCs

- Overview of Endpoint Protection in Configuration Manager
- Configuring, Deploying, and Monitoring Endpoint Protection Policies
- Configuring and Deploying Advanced Threat Policies

Course Topics *Continued*

Module 10: Managing Compliance and Secure Data Access
- Overview of Compliance Settings
- Configuring Compliance Settings
- Viewing Compliance Results
- Managing Resource and Data Access

Module 11: Managing Operating System Deployment
- An Overview of Operating System Deployment
- Preparing a Site for Operating System Deployment
- Deploying an Operating System
- Managing Windows as a Service

Module 12: Managing and Maintaining a Configuration Manager Site
- Configuring Role-Based Administration
- Configuring Remote Tools
- Overview of Configuration Manager Site Maintenance and Management Insights
- Backing Up and Recovering a Configuration Manager Site
- Updating the Configuration Manager Infrastructure

Module 13: What's New in Microsoft Endpoint Configuration Manager
- Newly Released Features Since Configuration Manager 2012

LABS INCLUDED

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