



## Administering System Center 2012 Configuration Manager Course 10747 36 Contact Hours

### Course Overview

This five-day instructor-led course provides students with the knowledge and skills to configure and manage a Microsoft System Center 2012 Configuration Manager site and its associated site systems in the role of Configuration Manager administrators.

### Audience

This course is intended for Configuration Manager administrators who are responsible for configuring and managing one or more System Center 2012 Configuration Manager sites and all supporting systems. They have one to three years of experience supporting multiple desktop and server computers running the Windows Server operating system in medium to large enterprise organizations. Administrators may have previous Configuration Manager experience, or be new to the product.

Individuals who are interested in taking exam 70-243: Administering and Deploying System Center 2012 Configuration Manager, can also attend this course. Both this course and course 10748A: Administering System Center 2012 Configuration Manager will help to prepare for the exam.

### At Course Completion

- Describe the System Center 2012 Configuration Manager feature set .
- Discover and organize resources .
- Manage the Configuration Manager client .
- Manage inventory and software metering .
- Query and report data .
- Manage software deployments by using packages and programs .
- Create and deploy applications .
- Manage application deployment .
- Deploy and manage software updates .
- Implement System Center 2012 Endpoint Protection .
- Deploy operating systems by using System Center 2012 Configuration Manager .
- Manage Compliance Settings on devices .
- Manage mobile devices .
- Configure Wake On LAN, power management, and Remote Control.

### Prerequisites

Before attending this course, students must have:

- Networking fundamentals, including TCP/IP and Domain Name System (DNS) .
- Active Directory principles and management .
- Windows Server management including Windows Server 2008 and Windows Server 2008 R2
- Microsoft Windows client fundamentals .
- Deployment, configuration, and troubleshooting for Windows-based personal computers .



- Microsoft SQL Server 2008 including Reporting Services .
- Basic Public Key Infrastructure (PKI) concepts .
- Desired: Have a base-level understanding of System Center Configuration Manager 2007.

## Course Outline

### Module 1: Overview of System Center 2012 Configuration Manager

This module describes the System Center 2012 Configuration Manager feature set and explains how to manage sites by using the System Center 2012 Configuration Manager console.

#### Lessons

- Introduction to System Center 2012 Configuration Manager
- Overview of System Center 2012 Configuration Manager Architecture
- Overview of the Configuration Manager Console
- Tools for Monitoring and Troubleshooting a Configuration Manager Site
- Lab : Exploring the Configuration Manager Console
- Exploring the Configuration Manager Console
- Searching in the Configuration Manager Console
- Lab : Monitoring and Troubleshooting a Configuration Manager Site
- Configuring Status Summarizers
- Managing Components by Using Configuration Manager Service Manager
- Monitoring Site and Component Status
- Reviewing Log Files by Using Configuration Manager Trace Log Tool

After completing this module, students will be able to:

- Describe the purpose and functionality of System Center 2012 Configuration Manager.
- Describe the System Center 2012 Configuration Manager architecture.
- Identify and locate the management features available in the Configuration Manager console.
- Identify and use the tools available to monitor and troubleshoot a Configuration Manager site.

### Module 2: Discovering and Organizing Resources

This module explains how to configure discovery methods, configure boundaries and boundary groups, manage user and device collections, and implement role-based security.

#### Lessons

- Configuring Resource Discovery
- Configuring Boundaries and Boundary Groups
- Configuring User and Device Collections
- Configuring Role-Based Administration
- Lab : Configuring Resource Discovery and Boundaries
- Configuring Active Directory Discovery Methods
- Configuring Boundaries and Boundary Groups
- Lab : Configuring User and Device Collections
- Creating a Device Collection
- Creating a User Collection
- Configuring a Maintenance Window



#### Lab : Configuring Role-Based Administration

- Configuring a New Scope for Toronto Administrators
- Configuring a New Administrative User

After completing this module, students will be able to:

- Configure resource discovery.
- Configure boundaries and boundary groups.
- Configure user and device collections.
- Configure role-based administration.

#### Module 3: Managing the Configuration Manager Client

This module explains how to configure client deployment methods, configure client settings, and monitor client status.

##### Lessons

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

#### Lab : Deploying the Configuration Manager Client

- Preparing the Site for Client Installation
- Deploying the Configuration Manager Client by Using Client Push Installation
- Deploying the Configuration Manager Client by Using Group Policy (Optional)

#### Lab : Managing Client Settings

- Configuring Client Settings

#### Lab : Configuring and Monitoring Client Status

- Configuring and Monitoring Client Communication and Health Status

After completing this module, students will be able to:

- Describe the requirements for installing the Configuration Manager 2012 client .
- Describe the site roles and methods used to deploy the Configuration Manager client .
- Describe how to configure the client settings .
- Describe how to monitor client health.

#### Module 4: Managing Inventory and Software Metering

This module explains how to configure and manage hardware and software inventory, monitor inventory data flow, and use Asset Intelligence and software metering.

##### Lessons

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





#### Lab : Configuring and Managing Inventory Collection

- Configuring Hardware Inventory
- Configuring Software Inventory

#### Lab : Configuring and Managing Asset Intelligence

- Preparing the Site for Asset Intelligence
- Configuring Asset Intelligence
- Customizing Asset Intelligence

#### Lab : Configuring Software Metering

- Configuring Software Metering

After completing this module, students will be able to:

- Describe inventory collection .
- Configure and collect hardware inventory .
- Configure and collect software inventory .
- Manage inventory collection .
- Configure Asset Intelligence .
- Configure software metering.

#### Module 5: Querying and Reporting Data

This module explains how to create queries and run reports by using SQL Server Reporting Services.

##### Lessons

- Introduction to Queries
- Managing Queries
- Configuring SQL Server Reporting Services

#### Lab : Creating and Running Queries

- Creating Data Queries
- Creating Status Message Queries

#### Lab : Configuring Reporting

- Create a Report Services Point

After completing this module, students will be able to:

- Describe data and status message queries.
- Configure and manage data and status message queries.
- Configure and manage SQL Server Reporting Services in Configuration Manager.

#### Module 6: Managing Software Deployments by Using Packages and Programs

This module explains how to create and deploy packages and programs.

##### Lessons

- Configuring Software Distribution
- Configuring Packages and Programs
- Distributing Content to Distribution Points
- Deploying Programs to Configuration Manager Clients



### Lab : Managing Software Deployment by Using Packages and Programs

- Preparing the Infrastructure for Software Deployment
- Creating a Package and Configuring Programs
- Distributing Content to a Distribution Point
- Deploying a Program to Configuration Manager Clients

After completing this module, students will be able to:

- Describe the software distribution process and configure software distribution settings.
- Configure packages and programs.
- Distribute content to distribution points.
- Deploy programs to Configuration Manager clients.

### Module 7: Creating and Deploying Applications

This module explains how to create and deploy applications by using the System Center 2012 Configuration Manager application model.

Lessons

- Overview of Application Management
- Creating Applications
- Deploying Applications
- Configuring the Application Catalog

#### Lab : Creating and Deploying an Application

- Creating and Deploying a Required Application
- Creating and Deploying an Available Application

#### Lab : Deploying Applications from the Application Catalog

- Installing and Configuring the Application Catalog
- Creating and Deploying Applications to the Application Catalog
- Installing Applications from the Application Catalog

After completing this module, students will be able to:

- Describe application management in Configuration Manager.
- Create applications.
- Deploy applications.
- Configure the Application Catalog.

### Module 8: Managing Application Deployment

This module explains how to configure application deployment requirements, application supersedence, application un-installation, and multiple deployment types.

Lessons

- Configuring Requirements and Dependencies for Deployment Types
- Configuring Multiple Deployment Types and User Device Affinity
- Managing Applications

#### Lab : Advanced Application Deployment

- Configuring User Device Affinity
- Creating Applications with Requirements



- Deploying Required Applications to Users
- Creating an Application with Multiple Deployment Types

Lab : Managing Application Supersedence and Removal

- Using Application Supersedence
- Uninstalling the Excel Viewer Application

After completing this module, students will be able to:

- Describe the requirements and dependencies for deployment types.
- Configure multiple deployment types and user device affinity.
- Manage applications by uninstalling and replacing applications using application supersedence.

#### Module 9: Deploying and Managing Software Updates

This module explains how to deploy and manage software updates.

Lessons

- Overview of Software Updates
- Preparing the Configuration Manager Site for Software Updates
- Managing Software Updates
- Configuring Automatic Deployment Rules
- Monitoring and Troubleshooting Software Updates

Lab : Configuring the Site for Software Updates

- Configuring and Synchronizing the Software Update Point

Lab : Deploying and Managing Software Updates

- Determining Software Update Compliance
- Deploying Software Updates to Clients
- Configuring Automatic Deployment Rules

After completing this module, students will be able to:

- Describe how the software updates feature integrates with System Center 2012 Configuration Manager .
- Prepare a Configuration Manager site for software updates .
- Manage software update evaluation and deployment .
- Configure automatic deployment rules .
- Monitor and troubleshoot software updates.

#### Module 10: Implementing Endpoint Protection in Configuration Manager 2012

This module explains how to integrate and implement System Center 2012 Endpoint Protection with System Center 2012 Configuration Manager.

Lessons

- Overview of Endpoint Protection in Configuration Manager
  - Configuring and Monitoring Endpoint Protection Policies
- Lab : Implementing Endpoint Protection
- Configuring the Endpoint Protection Point and Client Settings
  - Configuring and Deploying Endpoint Protection Policies
  - Monitoring Endpoint Protection





After completing this module, students will be able to:

- Describe how Endpoint Protection is used to detect and remediate malware and security vulnerabilities.
- Configure and monitor Endpoint Protection policies.

### Module 11: Managing Operating System Deployment

This module explains how to deploy operating systems by using the System Center 2012 Configuration Manager infrastructure.

Lessons

- Overview of Operating System Deployment
- Preparing the Site for Operating System Deployment
- Capturing an Operating System Image
- Deploying an Operating System

Lab : Preparing the Environment for Operating System Deployment

- Configuring the Network Environment for Operating System Deployment
- Managing Site System Roles Used to Support Operating System Deployment
- Managing Site System Roles Used to Support Operating System Deployment

Lab : Building and Capturing a Reference Image

- Creating a Build and Capture Task Sequence
- Capturing the Reference Computer

Lab : Performing an In-Place Upgrade

- Preparing the Operating System Image
- Creating a Task Sequence to Deploy an Image
- Deploying an Image

After completing this module, students will be able to:

- Describe operating system deployment.
- Prepare a site for operating system deployment.
- Capture operating system images.
- Deploy operating systems.

### Module 12: Managing Compliance Settings

This module explains how to manage configuration items and baselines to assess and remediate the compliance of settings on devices.

Lessons

- Overview of Compliance Settings
- Configuring Compliance Settings
- Viewing Compliance Results

Lab : Managing Compliance Settings

- Managing Configuration Items and Baselines
- Viewing Compliance Settings Reports
- Configuring Remediation in Compliance Settings
- Using Compliance Information to Create Collections



After completing this module, students will be able to:

- Describe the Compliance Settings feature .
- Configure the Compliance Settings feature .
- View compliance results.

### Module 13: Managing Mobile Devices

This module explains how to configure the mobile device management settings.

Lessons

- Configuring Mobile Device Management
- Configuring a Public Key Infrastructure
- Depth Management of Mobile Devices
- Deploying Applications to Mobile Devices

Lab : Configuring PKI for Configuration Manager

- Creating Certificate Templates for Configuration Manager
- Deploying Certificates for Configuration Manager

Lab : Managing Mobile Devices

- Preparing the Infrastructure for Mobile Device Management
- Enrolling a Mobile Device
- Managing Compliance Settings for a Mobile Device
- Deploying an Application to a Mobile Device

After completing this module, students will be able to:

- Configure mobile device management .
- Configure a public key infrastructure (PKI) .
- Describe how you can use depth management to manage supported mobile devices .
- Deploy applications to mobile devices.

### Module 14: Configuring Wake On LAN, Power Management, and Remote Control

This module explains how to configure Wake On LAN, power management policies, and Remote Control.

Lessons

- Configuring Wake On LAN
- Overview of Out of Band Management
- Configuring Power Management Settings
- Configuring Remote Control

Lab : Configuring Power Management Settings

- Applying a Power Management Plan

Lab : Configuring Remote Control

- Configuring the Remote Tools Client Settings and Permissions
- Managing Desktops by Using Remote Control

After completing this module, students will be able to:

- Configure the Wake On LAN feature .
- Describe out of band management .
- Configure power management settings .
- Configure Remote Control features.