



# Course 50216B: Microsoft System Center Operations Manager 2007: Advanced Configuration and Administration

Length:	3 Days
Audience(s):	IT Professionals
Level:	400
Technology:	Microsoft System Center Operations Manager 2007
Type:	Course
Delivery Method:	Instructor-led (classroom)

## About this Course

This three-day instructor-led course provides students with the knowledge and skills to configure and administer a complex environment with Microsoft System Center Operations Manager 2007 R2. Coverage includes Architecture and Troubleshooting, Management Packs, Reporting, and Connectors.

## Audience Profile

This course is intended for Operations Manager 2007 Administrators who are responsible for configuring and managing one or more Operations Manager 2007 management groups and all supporting roles.

## At Course Completion

**After completing this course, students will be able to:**

- Troubleshoot Operations Manager 2007.
- Understand Operations Manager 2007 architecture.
- Troubleshoot and tune management packs.
- Work with connectors.
- Author management pack.
- Author custom reports.
- Perform day-to-day tasks with command shell.
- Use Scripts in Operations Manager 2007.



## Pre-Requisites

**Before attending this course, students must have:**

- A+ certification or equivalent knowledge.
- Network+ certification or equivalent knowledge.
- Visual Basic Script knowledge.
- Windows Server experience.
- Completed Course 2274, or have equivalent knowledge.
- Completed Course 2275, or have equivalent knowledge.
- Completed Course 2277, or have equivalent knowledge.
- Completed Course 2278, or have equivalent knowledge.
- Completed Course 2279, or have equivalent knowledge.
- Completed Course 50028B, Managing System Centre Operations 2007, or equivalent knowledge.

## Course Outline

### Module 1: Architecture and Troubleshooting

This module will explain how the 'internals' of Operations Manager work and how to troubleshoot.

#### Lessons

- Architecture
- Operations Manager "Health Engine"
- Troubleshooting

#### Lab : Troubleshooting

- Troubleshooting discoveries and monitors
- Troubleshooting health state changes
- Troubleshooting the Operations Manager agent

**After completing this module, students will be able to:**

- Understand the Operations Manager architecture
- Troubleshoot Operations Manager



## Module 2: Management Packs

This module will explain management pack architecture and how to author a management pack.

### Lessons

- Architecture
- OpsMgr Console vs Authoring Console
- Targeting
- Override and Thresholds
- PRO Tips

### Lab : Import and tune management packs

- Using overrides
- Targeting based on different scenario's

### Lab : Author a management pack

Author a management pack

### After completing this module, students will be able to:

- Understand the management pack architecture
- Target a new monitor or rule to suitable collection of objects
- Author a management pack

## Module 3: Reporting

This module will explain how to develop custom reports.

### Lessons

- The Data Warehouse Database
- SQL Reporting And Reporting Items

### Lab : Author Custom Reports

Author a performance report

### Lab : Author Custom Reports

Author an event report

### Lab : Author Custom Reports

Author a health report



### **Lab : Author Custom Reports**

Author an ACS report

**After completing this module, students will be able to:**

- Understand the reporting and data warehouse architecture
- Work with Report Models
- Author custom reports on the Data Warehouse
- Author custom reports on the ACS database
- Author custom reports on the Operation database

## **Module 4: Connectors**

This module will explain how to connect Operations Manager to remote systems, like a ticketing system.

### **Lessons**

- Connector Architecture
- Using the Universal Connector
- Deploy, Configure And Use The Universal Connector

### **Lab : Install the Universal Connector**

Deploy and configure the Universal Connector

### **Lab : Use the Universal Connector**

Use the Universal Connector to forward alerts from Operations Manager

### **Lab : Use the Universal Connector**

Use the Universal Connector to import information from Remote Systems

**After completing this module, students will be able to:**

- Understand the Connector architecture
- Export information from Operations Manager with the universal connector
- Import information into Operations Manager with the universal connector



## Module 5: Advanced Scripting and Windows PowerShell

This module will explain how to build and work with Operations Manager scripting and Windows PowerShell.

### Lessons

- Operations Manager and Windows PowerShell functionality
- Operations Manager and Visual Basic Scripts functionality

### Lab : Using Powershell For Day-To-Day Tasks

- Using Windows PowerShell for ACS tasks
- Using Windows PowerShell to retrieve and export information
- Using Windows PowerShell to update information
- Using Windows PowerShell for User Roles and Notification tasks
- Using Windows PowerShell to troubleshoot the SCOM environment

### Lab : Operations Manager Scripting

- Creating Visual Basic scripts for 2- and 3-state "monitors"
- Creating Visual Basic scripts for "rules"
- Creating Visual Basic scripts for "discoveries"

### After completing this module, students will be able to:

- Use Windows PowerShell for day-to-day Operations Manager tasks
- Use Visual Basic Scripts to create custom 'monitors', 'rules' and 'discoveries'