System Center Operations Manager 2007: Advanced Configuration and Administration

Days:	**3**
Format:	**Instructor-Led**
Class Code:	**50216**

Recommended Course Sequence

Knowledge of prerequisites noted below.

Course content is subject to change without notice.

Course Description:

This three-day instructor-led course provides students with the knowledge and skills to configure and administrate a complex Operations Manager 2007 environment. The information included in this class will give students a better understanding of their Operations Manager 2007 infrastructure.

Target Student:

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.

Prerequisites:

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 Center Operations 2007, or equivalent knowledge.

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

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

Lessons
■ Operations Manager and PowerShell functionality ■ Operations Manager and Visual Basic Scripts functionality
Lab : Using PowerShell for day-to-day tasks
■ Using PowerShell for ACS tasks ■ Using PowerShell to retrieve and export information ■ Using PowerShell to update information ■ Using PowerShell for User Roles and Notification tasks ■ Using 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 PowerShell for day-to-day Operations Manager tasks ■ Use Visual Basic Scripts to create custom ‘monitors’, ‘rules’, and ‘discoveries’