



Mildain Solutions

MOC On-Demand: 10996-Hybrid Cloud and Datacenter Monitoring with Operations Management Suite (OMS) Course Outline

(5 days)

***** Note: This is an On-Demand Self Study Class, 5-days of content, 90-days unlimited access, \$995 *****

You can take this class at any time; there are no set dates. It covers the same content as the 5-day instructor-led class of the same name. The cost for this MOC On-Demand class is \$995. (Microsoft Enterprise customers paying with Software Assurance Vouchers, see SATV Payment note below.)

MOC On-Demand Learner Profiles

MOC On-Demand is a self-study training solution that was designed for two types of learners. First, MOC On-Demand is a great fit for experienced IT professionals who don't need a traditional 5-day class to upgrade their existing skills. They can pick and choose topics to make the most effective use of their time. Second, MOC On-Demand is perfect for highly-motivated individuals who are new to a technology and need to space their learning over a period of weeks or months. These learners can take their time and repeat sections as needed until they master the new concepts.

About MOC On-Demand

Our MOC On-Demand classes are self-study courses with 30 to 40 hours of content. They include hours of videos, hands-on labs using the actual software, and knowledge checks and were created by Microsoft to mirror the content found in the traditional live instructor-led version of this course. Those features are all part of the standard MOC On-Demand training. But don't settle for the standard MOC On-Demand class! Check out the "ONLC Extras" that you get when purchasing this course from us.



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ONLC Extras

ONLC Training Centers bundles in valuable extras with our MOC On-Demand Courses. These items are not available from other training companies.

Courseware After the Course. Get the digital courseware that is used in the live, instructor-led version of this class. While the MOC On-Demand access goes away after 90 days, you will have access to the "extra" digital courseware for an unlimited period of time.

24/7 Online Support. You will be able to chat online with a content matter expert while you are taking your MOC On-Demand class. And, with your permission, the expert can even take over your computer to provide with assistance with your labs.

Optional Add-Ons

These add-ons are available exclusively by ONLC Training Centers and are offered to you at an additional cost.

Upgrade to 180-Day Access, \$250. Need more time? Extend the base 90-day access to 180 days on your MOC On-Demand class, complete with labs, videos and knowledge checks. Extension must be ordered at time of original purchase and is non-refundable.

Certification Pak, \$150. Interested in obtaining certification? Get a Transcender practice exam and a Microsoft exam voucher at this reduced price.

ILT Listener, \$250. Want to listen in and follow along with a live Instructor-Led Training (ILT) class? We offer this option for individuals on a limited budget who have time during the day to hear a live class in progress. ILT Listeners have access to their online support chat expert during the class but they do not have direct access to the live instructor.

ILT Participant, \$ Varies. You've purchased MOC On-Demand, have gone through the training and decided that you still want a live class. Just pay difference between MOC On-Demand course and the Instructor-Led Training (ILT) class and you can have a seat in our live class. Get both self-study and live, instructor-led training for the retail price of the instructor-led class alone!



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Paying with Software Assurance Training Vouchers (SATV)

For Microsoft Enterprise customers paying with Software Assurance Vouchers, the cost of this class is 5 vouchers--this includes access to the self-study materials, the student workbook, 24/7 access to an online expert, and a corresponding exam voucher, if applicable, upon request.

Do You Still Prefer a Live, Instructor-led Class?

Already know MOC On-Demand is not right for you? We also offer this same course content in a live, instructor-led format.

COURSE DETAILS

Overview

This five-day course will provide students with the key knowledge required to deploy and configure Operations Management Suite. Using hands-on labs, students will learn the following:

- An overview of System Center 2016.
- How to upgrade to System Center 2016 from System Center 2012 R2.
- Integrate System Center 2016 with Operations Management Suite
- An overview of Operations Management Suite.
- Base configuration and operations of Operations Management Suite.
- Configuring Operations Management Suite Automation and Control.
- Operating Operations Management Suite Automation and Control.
- Configuring Operations Management Suite Insight and Analytics.
- Operating Operations Management Suite Insight and Analytics.
- Configuring Operations Management Suite Protection and Recovery.
- Operating Operations Management Suite Protection and Recovery.
- Configuring Operations Management Suite Security and Compliance.
- Operating Operations Management Suite Security and Compliance.



Audience profile

This course is intended for service administrators, devops, and cloud architects who are interested in using Operations Management Suite to provide hybrid cloud and datacenter monitoring for their organization.

Prerequisites

Before attending this course, students must have:

- 1 year's experience of System Center 2012 R2 or System Center 2016.
- Working knowledge of SQL Server 2012, 2014, or 2016.
- Working knowledge of Windows Server 2012 R2 and Windows Server 2016.

At course completion

After completing this course, students will be able to:

- Understand the components and features of System Center 2016.
- Upgrade System Center 2012 R2 to System Center 2016.
- Integrate System Center 2016 with Operations Management Suite.
- Configure base settings in Operations Management Suite.
- Configure and operate Automation and Control in Operations Management Suite.
- Configure and operate Insight and Analytics in Operations Management Suite.
- Configure and operate Protection and Recovery in Operations Management Suite.
- Configure and operate Security and Compliance in Operations Management Suite.

Course Outline

Module 1: Overview of System Center 2016

In this module, you will learn about the components that make up the System Center 2016 product including how they sit within it.

Lessons



- Overview of Configuration Manager.
- Overview of Operations Manager.
- Overview of Orchestrator.
- Overview of Data Protection Manager.
- Overview of Virtual Machine Manager.
- Overview of Service Manager.

Lab : Overview of System Center 2016

- Configuration Manager Console.
- Operations Manager Console.
- Orchestrator Console.
- Data Protection Manager Console.
- Virtual Machine Manager Console.
- Service Manager Console.

Module 2: Upgrading to System Center 2016

In this module, you will learn how the various System Center 2012 R2 components are upgraded to System Center 2016.

Lessons

- Upgrading Configuration Manager.
- Upgrading Operations Manager.
- Upgrading Orchestrator.
- Upgrading Data Protection Manager.
- Upgrading Virtual Machine Manager.
- Upgrading Service Manager.

Lab : Upgrading to System Center 2016

- Upgrading configuration Manager to the latest branch.
- Upgrading Orchestrator to System Center 2016.
- Upgrading Service Manager to System Center 2016.
- Upgrading Data Protection Manager to System Center 2016.
- Upgrading Operations Manager to System Center 2016.
- Upgrading Virtual Machine Manager to System Center 2016.



Module 3: Integrating System Center 2016 with Operations Management Suite

In this module, you will learn how integration between System Center 2016 Operations Manager and Operations Management Suite is configured.

Lessons

- Integrating OMS with Operations Manager

Lab : Integrating Operations Manager with Operations Management Suite

- Integrating Operations Manager with OMS
- Viewing Operations Manager data in OMS

Module 4: Introducing Operations Management Suite

In this module, you will learn the key features and capabilities of Operations Management Suite. This information will prove invaluable throughout the rest of this course and will provide a foundation on which the rest of the course is built upon.

Lessons

- Core Concepts of Managing a Hybrid Cloud.
- Overview of Operations Management Suite.
- Overview of Log Analytics.
- Overview of Solution Packs.
- Overview of OMS Licencing.
- Overview of Azure Tenants.
- Overview of Azure Subscriptions.

Lab : Reviewing the OMS Portal

- Review the OMS Portal

Module 5: Configuring Operations Management Suite

In this module, you will learn some of the key base configurations that take place in Operations Management Suite including data sources, computer groups and accounts.

Lessons

- Configuring the OMS Workspace using the OMS Portal.
- Configuring an OMS Workspace through an existing Azure subscription.



- Configure Connected Sources.
- Configure Data Sources.
- Configure Computer Groups.
- Configure Accounts.
- Configure Other Features.
- Configuring OMS PowerShell.

Lab : Configuring the OMS Workspace

- Azure Identity Portal.
- Azure Trial Portal.
- OMS Portal.
- Azure Portal.
- OMS Log Analytics Queries.
- System Center 2016 Operations Manager Console.
- System Center 2016 Configuration Manager Console.

Module 6: Operating Operations Management Suite

In this module, you will learn about some of the key operations that are performed in Operations Manager Suite including log searches and using OMS Templates.

Lessons

- Operating OMS Log Search.
- Analyzing OMS Search Data.
- Integrating with OMS.

Lab : Operating OMS

- Configure an Azure Identity.
- Configure an Azure subscription.
- Configure an Azure workspace.
- Configure a connection to Azure.
- Configure a connection System Center Operations Manager 2016.
- Configure a connection System Center Configuration Manager 2016.
- Deploy and configure an OMS agent.
- Configure OMS user security.



- Configure OMS data retention.
- Connect to OMS using PowerShell.
- Connect to OMS using REST APIs.
- Review OMS data usage.

Module 7: Overview of Automation and Control

In this module, you will how the key features of Automation and Control in Operations Management Suite. This includes features such as change tracking and update management.

Lessons

- Overview of OMS Change Tracking.
- Overview of OMS Update Management.

Lab : Reviewing Change Tracking and Update Management

- Change Tracking.
- Update Management.

Module 8: Configuring Automation and Control

In this module, you will learn how to configure Automation and Control in Operations Management Suite. This includes configuring the Change Tracking and Update Management Solution Packs.

Lessons

- Configuring the Change Tracking Solution Pack.
- Configuring the Update Management Solution Pack.

Lab : Configuring Automation and Control

- Configure the Change Tracking Solution Pack.
- Configure the Update Management Solution Pack.

Module 9: Operating Automation and Control

In this module, you will learn how to operate Automation and Control in Operations Management Suite.

Lessons

- Operate the Change Tracking Solution.



- Operate the Update Management Solution.

Lab : Operating OMS

- Operate the Change Tracking Solution Pack.
- Operate the Update Management Solution Pack.

Module 10: Overview of Insight and Analytics

In this module, you will how the key features of Insight and Analytics in Operations Management Suite. This includes features such as network performance monitor and service maps.

Lessons

- Overview of Network Performance Monitor.
- Overview of Service Maps.

Lab : Reviewing Insight and Analytics

- Reviewing Network Performance Monitor
- Reviewing Service Maps

Module 11: Configuring Insight and Analytics

In this module, you will learn how to configure Insight and Analytics in Operations Management Suite. This includes configuring synthetic transactions and service maps for Windows and Linux.

Lessons

- Configuring the Network Performance Monitor Solution Pack.
- Configuring the Service Map Solution Pack.

Lab : Configuring the Insight and Analytics Solution Packs

- Configure OMS Network Performance Monitor Solution Pack.
- Configure Synthetic Transactions using ICMP.
- Configure Synthetic Transactions using TCP.
- Configure the Insight and Analytics Solution Pack.
- Install Service Map agent for Windows.
- Install Service Map agent for Linux.



Module 12: Operating Insight and Analytics

In this module, you will learn how to perform operations in Operations Management Suite relating to Insight and Analytics. This includes the Network Performance Monitoring Solution Pack and the Service Map Solution Pack.

Lessons

- Operating the Network Performance Monitoring Solution Pack.
- Operating the Service Map Solution Pack.

Lab : Operating the Insight and Analytics Solution Packs

- Operate the Network Performance Monitoring Solution.
- Operate the Service Map Solution.

Module 13: Overview of Protection and Recovery

In this module, you will learn the key features in Operation Management Suite Protection and Recovery. This includes OMS Backup and OMS Azure Site Recovery.

Lessons

- OMS Backup
- OMS Azure Site Recovery

Lab : Reviewing Protection and Recovery in OMS

- Review OMS Backups
- Review OMS Azure Site Recovery

Module 14: Configuring Protection and Recovery

In this module, you will learn how to configure the key features in Operation Management Suite Protection and Recovery. This includes the OMS Backup Vault and OMS Backup Agent.

Lessons

- Configuring OMS Backup
- Configuring OMS Azure Site Recovery

Lab : Configuring Protection and Recovery in OMS

- Configure OMS Backup Solution Pack.
- Configure Backup Vault.
- Install the OMS Backup Agent.



- Configure Azure Site Recovery Solution Pack.
- Configure Azure Site Recovery Agent.

Module 15: Operating Protection and Recovery

In this module, you will learn how to operate the key features in Operation Management Suite Protection and Recovery. This includes OMS Backup and OMS Azure Site Recovery.

Lessons

- Operate OMS Backup
- Operate OMS Azure Site Recovery

Lab : Configuring and Operating Protection and Recovery in OMS

- Configure OMS Backups for protected servers.
- View OMS Backup status for protected servers.
- Configure Azure Site Recovery Backups for protected servers.
- View Azure Site Recovery Backup status for protected servers.

Module 16: Overview of Security and Compliance

In this module, you will learn the key features in Operations Management Suite Security and Compliance. This includes Antimalware and the Security and Compliance Solution Pack.

Lessons

- Overview of OMS Antimalware Assessment.
- Overview of OMS Security and Auditing.

Module 17: Configuring Security and Compliance

In this module, you will learn how to configure Security and Compliance in Operations Management Suite. This includes Antimalware assessments and the Security and Compliance Solution Pack.

Lessons

- Configuring the Security and Compliance Solution Pack.
- Configuring Antimalware Assessments.



Module 18: Operating Security and Compliance

In this module, you will learn how to operate Security and Compliance in Operations Management Suite. This includes Operating the Security and Compliance and Antimalware Assessment Solutions in OMS.

Lessons

- Operating the Antimalware Assessment Solution.
- Operating the Security and Audit Solution.

Lab : Operating the Security and Compliance Solution Pack

- Add the Security and Compliance Solution Pack to Operations Management Suite.
- Review the insights available through the Antimalware Assessment solution pack.
- Review the insights available through the Security and Audit solution pack.
- Review data collection from Operations Manager Agents in Operations Management Suite.