

## SCCM 2007 R3 Windows Operating System Deployment (OSD)

**Number of Days:** Five (5)

The goal of this course is to have a deep dive into SCCM 2007'S operating system deployment feature, covering what students should know about OS deployment using the native SCCM 2007 feature. This course will prepare attendees to plan, design and implement a variety of operating system deployment scenarios using the Operating System Distribution features of System Center Configuration Manager (SCCM) 2007 R3. Course lectures will focus on guiding participants through the deployment scenarios available using SCCM and OSD, and understand the steps involved with building a deployment infrastructure around these technologies, using custom task sequences, zero touch deployment and additional functionality extensions for OSD in Microsoft deployments.

### Prerequisites:

This is not an introductory course to SCCM or OSD. Students must be familiar with SCCM to attend this class and should have a good working knowledge of Active Directory and a basic understanding of OS Deployments and challenges. It is recommended that students have SCCM knowledge or have attended the MOC 6451 course prior to attending this class.

This class is targeted towards students that plan to deploy Window 7 in the near future or are presently deploying Windows 7 and are looking to optimize their deployment process.

### Instructors:

The instructors that deliver this course are experienced, enterprise consultants who have experience in the deployment of Operations Manager. All of our instructors have real-world expertise and are both accomplished consultants and excellent presenters that make the delivery interesting and provide insight into real world issues that they have had to provide solutions to.

### Description:

Attendees will have the opportunity to complete a variety of operating system deployment scenarios in extensive hands-on exercises.

This class consists of the following sessions:

**Day 1:** Covers the following topics:

- Application Compatibility Issue
  - This section will introduce students to the pre-planning process of operating systems deployment, and more particularly to the application compatibility assessment and remediation tools available.

- Application Compatibility Tools
  - This section will introduce some of the application compatibility tools available to students and how to use them.
  
- Application Remediation
  - Here the students will do a dive into different application remediation options to make “bad-behaving” applications usable in a Windows 7 environment. Pro’s and Con’s of the different application remediation options will be handled and guidance given on when to use which solution.

**Day 2:** Covers the following topics:

- Setting up an OS Deployment Infrastructure
  - This session starts with an explanation of what components make up an SCCM 2007 deployment infrastructure. This will include details about PXE, Task Sequence Media, Wim Images, WinPE, Multicast, Driver Packages and Task Sequences.
  
- Bare Metal Deployments
  - In this section students will be able to start off with the simplest scenario for OS deployment, installing a brand new machine using SCCM 2007 OS Deployment.

**Day 3:** Covers the following topics:

- User State Migration
  - User State Migration is an important consideration when transitioning from one operating system to another; a well-thought migration plan has the potential to increase user-satisfaction quite a bit without increasing labor requirements in a drastic fashion.
  
- Refresh & Side-by-Side Migrations
  - Students will look at how “the Implement the Computer Refresh Scenario” (re-install a computer while maintaining user data), and the “Side-by-Side” migration scenario where data is transferred from one machine to another.

**Day 4:** Covers the following topics:

- Task Sequence Flexibility
  - Students will learn how to pull all registers open to make our OS deployment solution as flexible as possible using all options available to them.
  
- Task Sequence Variables
  - Students will learn about the ins and outs of task sequence variables, how to use them in your task sequences; how to use them from vbscript and a whole list of scenarios explaining where they can be useful.

- Task Sequence Conditions
  - As with task sequence variables you will get introduced to using task sequence conditions to make the most out of your task sequences. Understanding conditions is crucial to building flexible deployment solutions and no real world Task Sequence can work without implementing some form of conditions.
- Built-in Task Sequence Actions & 3<sup>rd</sup> Party Tools
  - This section will detail the built-in task sequence actions available as well as some 3<sup>rd</sup> party tools to make task sequences do whatever you want them to do.

**Day 5:** Covers the following topics:

- Wrap up “How to Handle Applications Re-Deployments in a Dynamic Fashion”
  - Day 5 will be about wrapping up the class with a particular topic of how to handle application re-deployments in a dynamic fashion. Students will learn how to handle redelivering the same applications already present on a machine in a refresh or Side-by-Side scenario. Three (3) different approaches will be explained, each outlining their respective pro’s and con’s.

**Topics will not be covered in this class**

**Microsoft Deployment Toolkit in its standalone configuration.**