



This course supports the assessment for Operating Systems. The course covers 7 competencies and represents 6 competency units.

Introduction

Introduction

This course prepares you to take the 70-680 Microsoft Specialist exam.

Getting Started

Welcome to Operating Systems! After taking the Microsoft 70-680 exam, you will earn the Microsoft Certified Professional (MCP) certification. Passing this exam validates your ability to install and configure Windows 7 computers, devices, users, and associated network and security resources. Successfully passing this exam qualifies you for a position as a computer support specialist.

The format of your exam may include the following types of questions and features:

- Active Screen
- Build List
- Drag and Drop
- Hot Area
- Multiple Choice
- Repeated Answer Choices
- Best Answer
- Review Later
- Review Screen

For further information and strategies for answering assessment item types, please access the [Microsoft Certification Exams Page](#).

Watch the following welcome video for an introduction to this course:

Note: To download this video, right-click the following link and choose "Save as...": [download video](#).

This course provides guidance to help you demonstrate the following 7 competencies:

- **Competency 402.1.1: Installation and Configuration**
The graduate can install and configure a specified computer operating system.
- **Competency 402.1.2: Implementation and Management**
The graduate can implement and manage the administration of network.
- **Competency 402.1.3: Hardware Devices and Drivers**



The graduate can implement, manage, monitor, and troubleshoot hardware devices and drivers.

- **Competency 402.1.4: System Performance and Reliability**

The graduate can monitor and optimize system performance and reliability.

- **Competency 402.1.5: Desktop Environment**

The graduate can configure and troubleshoot the desktop environment.

- **Competency 402.1.6: Network Protocols and Services**

The graduate can implement, manage, and troubleshoot network protocols and services.

- **Competency 402.1.7: System Security**

The graduate can configure, manage, and troubleshoot security.

Course Instructor Assistance

As you prepare to demonstrate competency in this subject, remember that course instructors stand ready to help you reach your educational goals. As subject matter experts, mentors enjoy and take pride in helping students become reflective learners, problem solvers, and critical thinkers. Course instructors are excited to hear from you and eager to work with you.

Successful students report that working with a course instructor is the key to their success. Course instructors are able to share tips on approaches, tools, and skills that can help you apply the content you're studying. They also provide guidance in assessment preparation strategies and troubleshoot areas of deficiency. Even if things don't work out on your first try, course instructors act as a support system to guide you through the revision process. You should expect to work with course instructors for the duration of your coursework, so you are welcome to contact them as soon as you begin. Course instructors are fully committed to your success!

Important: Preparing For Your Course

Follow the instructions in this section to get you prepared for the coursework that follows.

Setting Up Your Own Virtual Environment

WGU's [MS Imagine](#) account provides you with the tools to create a virtual server of your own. Sign in to [MS Imagine](#), then download and install the following software:

- Windows Server 2012 R2 Datacenter

Click the link below to download Windows 7 Professional

- [Windows 7 Professional](#)

[Microsoft Lab Setup Guide](#)

If you need additional help setting up your lab, please contact your Course instructors.

Check Point



Mark the "Complete" button once you have set up your virtual environment.

Learning Resources

Your primary learning resource for this course are:

- CBT Nuggets
- MeasureUp Lab Environment
- Transcender Practice Exam

Launch CBT Nuggets

Launch MeasureUp Lab
Environment

Launch Transcender
Practice Exams
Homepage

Please review the article with the title, *Best Practices for MS Resources* in Course Tips (right navigation bar) to learn more about how to use these resources effectively and improve your chances of passing this certification exam on your first attempt. In addition, please feel free to take advantage of the following supplemental resources:

OPTIONAL: Review additional material

- [MCTS Windows 7 Configuration Study Guide](#) (free)
- [Pluralsight \(90-day free trial\)](#)
- [MCTS 70-680: Cert Guide: Microsoft Windows 7, Configuring](#)

Check Point

Mark the "Complete" button once you have

- reviewed your learning resources and bookmarked them and
- reviewed the *Best Practices for MS Resources* article for using your resources most effectively.

Pacing Guide

The pacing guide suggests a weekly structure to pace your completion of learning activities. It is



provided as a suggestion and does not represent a mandatory schedule. Follow the pacing guide carefully to complete the course in the suggested timeframe.

Week 1

- Introduction
 - Review the Skills Measured section from Microsoft
 - CBT Nuggets
 - About this Course
 - Course Introduction
- Installing, Upgrading, and migrating to Windows 7
 - CBT Nuggets
 - Installation Part 1: Clean Install
 - Installation Part 2: Upgrade and Migration
 - MeasureUp Labs
 - Installing Windows 7
 - Migrate User Profiles
 - Transcender
 - Installing, Upgrading, and Migrating to Windows 7

Week 2

- Deploying Windows 7
 - CBT Nuggets
 - Imaging Part 1: Creating a Reference Image
 - Imaging Part 2: Capturing and Deploying a Reference Image
 - Imaging Part 3: Preparing System Images
 - Imaging Part 4: Configuring a VHD
 - MeasureUp Labs
 - Deploying Windows 7
 - Transcender
 - Deploying Windows 7

Week 3

- Configuring Hardware and Applications
 - CBT Nuggets
 - Configuring Devices
 - Managing Disks
 - MeasureUp Labs
 - Configuring Devices and Application Compatibility

Week 4

- Configuring Hardware and Applications (continued)
 - CBT Nuggets



- Managing Applications
- Application Restrictions
- Internet Explorer
- MeasureUp Labs
 - Configuring Windows XP Mode and AppLocker
- Transcender
 - Configuring Hardware and Applications

Week 5

- Configuring Hardware and Applications (Continued)
 - CBT Nuggets
 - IPv4 Networking
 - IPv6 Networking
 - Wireless Networking
 - Windows Firewall
 - Remote Administration
 - MeasureUp Labs
 - Configuring Network Connectivity
 - Transcender Optimized Exam
 - Configuring Network Connectivity

Week 6

- Configuring Access to Resources
 - CBT Nuggets
 - Accessing Resources Part 1
 - Accessing Resources Part 2
 - Authentication and User Account Control
 - Remote Access
 - MeasureUp Labs
 - Configuring Resource Access
 - Transcender Optimized Exam
 - Configuring Access to Resources

Week 7

- Configuring Mobile Computing
 - CBT Nuggets
 - Mobile Computing
 - MeasureUp Labs
 - Configure Mobile Computing
 - Transcender
 - Configuring Mobile Computing

Week 8



- Monitoring and Maintaining Systems that Run Windows 7
 - CBT Nuggets
 - Monitoring Systems
 - Configuring Performance
 - MeasureUp Labs
 - Monitoring and Maintaining Windows 7
 - Transcender Optimized Exam
 - Monitoring and Maintaining Systems that Run Windows 7

Week 9

- Configuring Backup and Recovery Options
 - CBT Nuggets
 - Windows Update
 - Backup and Recovery
 - MeasureUp Labs
 - Configuring Backup and Recovery
 - Transcender Optimized Exam
 - Configuring Backup and Recovery Options

Week 10 - 11

- Review areas of concern to concrete understanding and processes
- Transcender Preset Exam

Week 12

- Schedule your 70-680 Assessment

Note: This pacing guide does not replace the course. Please continue to refer to the course for a comprehensive list of the resources and activities.

Pre-assessment

Before you start this coursework, review the [Skills Measured in Microsoft](#), then take the Transcender Preset Exam once to further review the topics addressed. Do not be concerned about your initial results in the Preset Exam — your score and your competence will improve as you progress through the course material; however, do review the resulting explanations (correct **and** incorrect) to be aware of the assessment's full scope and the areas on which you may want to give special attention as you study.

Choose one of the Preset Exams (A, B, C, or Random) and do the best you can. Each of these tests contains 52 questions and permits 2 hours to complete.



Launch Transcender
Preset Exam

Check Point

Mark the "Complete" button once you have

- completed the Preset Exam and reviewed and taken notes of assessment explanations you need to study.

Course Work

The following sections provide instruction to assist you in obtaining the competencies for this course.

Introduction

Complete: CBT Nuggets Modules

The following CBT Nuggets modules cover content for the matched exam objective items:

- About this Course
- Course Introduction
- Your 70-680 Exam

Installation and Configuration

This topic addresses the following competency:

• Competency 402.1.1: Installation and Configuration

The graduate can install and configure a specified computer operating system.

Complete: CBT Nuggets Modules

The following [CBT Nuggets](#) modules cover content for the matched exam objective items:

- Installation Part 1: Clean Install
- Installation Part 2: Upgrade and Migration
- Imaging Part 1: Creating a Reference Image
- Imaging Part 2: Capturing and Deploying a Reference Image
- Imaging Part 3: Preparing System Images
- Imaging Part 4: Configuring a VHD

Complete: MeasureUp Labs

Complete the following [MeasureUp](#) labs:

- Installing Windows 7
- Deploying Windows 7



- Migrate User Profiles

Complete: Transcender Optimized Tests

Click the following link and take the optimized test as noted.

- [Installing, Upgrading, and Migrating to Windows 7](#)
- [Deploying Windows 7](#)

Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: Installation and Configuration](#)

Hardware Devices and Drivers

This topic addresses the following competency:

- **Competency 402.1.1: Installation and Configuration**
The graduate can implement, manage, monitor, and troubleshoot hardware devices and drivers.

Complete: CBT Nuggets Modules

The following [CBT Nuggets](#) modules cover content for the mtched exam objective items:

- Configuring Devices
- Managing Disks

Complete: MeasureUp Lab

Complete the following [MeasureUp](#) labs:

- Configuring Devices and Application Compatibility

Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: Hardware Devices and Drivers](#)

Desktop Environment

This topic addresses the following competency:

- **Competency 402.1.5: Desktop Environment**
The graduate can configure and troubleshoot the desktop environment.



Complete: CBT Nuggets Modules

The following [CBT Nuggets](#) modules cover content for the matched exam objective items:

- Managing Applications
- Application Restrictions
- Internet Explorer

Complete: MeasureUp Lab

Complete the following [MeasureUp](#) labs:

- Configuring Windows XP Mode and AppLocker

Complete: Transcender Optimized Test

Click the following link and take the optimized test as noted.

- [Configuring Hardware and Applications](#)

Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: Desktop Environment](#)

Network Protocols and Services

This topic addresses the following competency:

- **Competency 402.1.6: Network Protocols and Services**

The graduate can implement, manage, and troubleshoot network protocols and services.

Complete: CBT Nuggets Modules

The following [CBT Nuggets](#) modules cover content for the matched exam objective items:

- IPv4 Networking
- IPv6 Networking
- Wireless Networking
- Windows Firewall
- Remote Administration
- Accessing Resources Part 1
- Accessing Resources Part 2
- Authentication and User Account Control
- Remote Access
- Mobile Computing

Complete: MeasureUp Labs



Complete the following [MeasureUp](#) labs:

- Configuring Network Connectivity
- Configuring Resource Access
- Configuring Mobile Computing

Complete: Transcender Optimized Tests

Click the following link and take the optimized test as noted.

- [Configuring Network Connectivity](#)
- [Configuring Access to Resources](#)
- [Configuring Mobile Computing](#)

Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: Network Protocol and Services](#)

Implementation and Management & System Performance and Reliability

This topic addresses the following competencies:

- **Competency 402.1.2: Implementation and Management**

The graduate can implement and manage the administration of network.

- **Competency 402.1.4: System Performance and Reliability**

The graduate can monitor and optimize system performance and reliability.

Complete: CBT Nuggets Models

The following [CBT Nuggets](#) modules cover content for the matched exam objective items:

- Monitoring Systems
- Configuring Performance
- Windows Updates

Complete: MeasureUp Lab

Complete the following [MeasureUp](#) lab:

- Monitoring and Maintaining Windows 7

Complete: Transcender Optimized Test

Click the following link and take the optimized test as noted.

[Monitoring and Maintaining Systems that Run Windows 7](#)



Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: Implementation and Management](#)
- [70-680: System Performance and Reliability](#)

System Security

This topic addresses the following competency:

- **Competency 402.1.7: System Security**
The graduate can configure, manage, and troubleshoot security.

Complete: CBT Nuggets Modules

The following [CBT Nuggets](#) modules cover content for the matched exam objective items:

- Backup and Recovery

Complete: MeasureUp Lab

Complete the following [MeasureUp](#) lab:

- Configuring Backup and Recovery

Complete: Transcender Optimized Test

Click the following link and take the optimized test as noted.

- [Configuring Backup and Recovery Options](#)

Review: Additional TechNet Articles

The following link contains some TechNet articles that will help further your understanding of the concepts discussed in this module. This is not all-inclusive, but rather a good starting point.

- [70-680: System Security](#)

Assessment Tips

One of the many things that makes WGU unique is its competency-based education model. If you know the material, all you have to do is prove it by passing the exam. If you can do this, you can accelerate the receipt of your degree.

Whether you are taking your assessment at a remote location or at a testing center, the general format of the test is the same. The following list provides video recorded descriptions of the exam format from PearsonVUE:

- [Exam formats and question types](#)



Your test will likely contain all of the formats listed **except case studies**.

To make sure you have the best chance possible to pass the exam on your first attempt, the following steps should be completed successfully before you take it:

1. Find the areas of concern

1. Use the Skills Measured section of the exam web page as a roadmap for verifying competency. Print out the Skills Measured section, then **cross out those topics with which you are 100% comfortable**. Get more study and **hands-on practice** with the remaining topics;
2. Test your understanding in Transcender on relevant objectives *as you progress*. Use the "Optimize" practice exam option with 5 questions per objective, one objective at a time. **Use your own personal lab to practice** (where appropriate);

2. Fill the gaps

1. Select the TechNet links, when reviewing Transcender questions, for additional information;

3. Get more hands-on practice

1. Consider TechNet Virtual Labs for additional hands-on practice. Complete MeasureUp labs **multiple times** to reinforce familiarity.
2. Consider installing and configuring a personal lab using Hyper-V;

4. Take a periodic "progress snapshot"

1. Attempt the Preset Exams from Transcender to assess your progress. You should score 90% or higher on multiple attempts to be fully prepared;

5. Recommended progress check prior to scheduling assessment:

1. Transcender Preset exam score of 90% or higher on multiple attempts;

6. Relax

1. Take the day off from studying, 24 hours before you take the assessment.

If you have completed the steps above and you feel comfortable with all of the concepts presented, you are most likely ready to attempt the exam and should request approval from your program mentor.

If you fail your first attempt, you will be required to work with a course instructor to make a modified study plan, and to obtain an additional attempt approval. After you and your course instructor determine you are prepared, your course instructor will approve your next exam attempt.