This course supports the assessments for Operating Systems--Windows 7, Configuring. The course covers 7 competencies and represents 4 competency units.

Introduction

Overview
The Operating Systems course is for current and aspiring information technology professionals. It will help you master installation, configuration, and troubleshooting for one of the world's leading operating systems: Windows 7.

Windows 7 is widely used in different industries and provides robust functionality that was not previously included by any client operating systems developed by Microsoft. Mastering this operating system will help you become an expert in information technology and a savvy user.

If you have experience with previous Microsoft operating systems, including

- Windows 95/98,
- Windows ME,
- Windows NT,
- Windows 2000,
- Windows XP Professional, or
- Windows Vista,

it will be relatively easy for you to learn Windows 7, as it inherits many attributes from those earlier operating systems.

Completion of this assessment can also count toward the following certifications:

- Microsoft Certified IT Professional (MCITP) Enterprise Administrator
- Microsoft Certified IT Professional (MCITP) Enterprise Desktop Administrator 7
- Microsoft Certified IT Professional (MCITP) Enterprise Desktop Support Technician 7

Successfully passing the Microsoft Exam 70-680 (ABV1) assessment will earn you a Microsoft Certified Technology Specialist (MCTS) certification.

This certification will help bring you into the IT industry and will help increase your value as a current IT industry professional.

Watch the following introduction video for this course:

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

Competencies
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 successfully 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!

**Preparing for Success**

The information in this section is provided to detail the resources available for you to use as you complete this course.

**Learning Resources**

The learning resources listed in this section are required to complete the activities in this course. For many resources, WGU has provided automatic access through the course. However, you may need to manually enroll in or independently acquire other resources. Read the full instructions provided to ensure that you have access to all of your resources in a timely manner.

**Automatically Enrolled Learning Resources**

You can access the learning resources listed in this section by clicking on the links provided...
throughout the course. You may be prompted to log in to the WGU student portal to access the resources.

**CBT Nuggets**
You will have access to instructional videos provided by the following CBT Nuggets course:

- **(70-680) - Operating Systems**

You will have direct access to the home page of this resource, and will have to navigate to the specific modules indicated for each activity.

**Transcender Practice Exams**
You will access the following resource from Transcender at the activity level within this course:

- **Cert-70-680| MSCert: TS - Windows 7, Configuring**

Use this resource liberally. You can set up your own custom settings, so try using it as a preassessment to test each specific Microsoft exam. You can set up flashcard practice throughout each week and also use it as a postassessment. Contact your course instructor if you need extra help setting up and/or changing your settings.

*Note: The online version of the Transcender learning resource is provided to you by WGU as part of your enrollment. If you wish to use the offline version, you may purchase it yourself from Transcender.*

**MeasureUp Lab Environment**
Use the MeasureUp lab simulations to work through and practice the exam content.

*Note: The Measureup lab experience can be much like going to a computer lab; there are occasions when there is a line to be able to get access to a machine, and there can also be a wait time for the lab to load. Load times usually take around 30 seconds. A wait time for the specific lab you would like to enter may take about 10 minutes and you can be emailed a lab-availability notification should you request one.*

**OPTIONAL: Review additional material**

- **Pluralsight (90-day free trial)**

**STUDY TIPS**

- It is recommended that you work with the MeasureUp lab technologies as the CBT Nuggets' instructor is speaking. Pause the videos when you need more time to set up your own environment.
- Although the section for the Transcender practice exams is listed toward the end of the course, there are features within the program that allow you to set up your own preferences for flashcards and practice; this is a good tool to use throughout your
studies in this course. It is customizable as your knowledge progresses, and might also serve as a good self-preassessment.

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.

- Pacing Guide: Operating Systems

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.

Installing, Upgrading, and Migrating to Windows 7

The content and practice provided in this section represents 14% of the total 70-680 exam.

Installing, Upgrading, and Migrating to Windows 7

This section addresses the following competency:

- Competency 402.1.1: Installation and Configuration
  The graduate can install and configure a specified computer operating system.

This topic highlights the following objectives:

- performing a clean installation
- upgrading to Windows 7 from previous versions of Windows
- migrating user profiles

Complete: CBT Nuggets Module

The following CBT Nuggets module covers content for the matched exam objective items:

- Installation Part 1: Clean Install
- Installation Part 2: Upgrade and Migration

Complete: Transcender Optimized Test

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

- Installing, Upgrading, and Migrating to Windows 7

Deploying Windows 7

The content and practice provided in this section represents 13% of the total 70-680 exam.

Deploying Windows 7

This section addresses the following competency:

- Competency 402.1.6: Network Protocols and Services
  The graduate can implement, manage, and troubleshoot network protocols and
services.

This topic highlights the following objectives:

- configuring devices
- configuring application compatibility
- configuring application restrictions
- configuring Internet Explorer

**Complete: CBT Nuggets Module**

The following **CBT Nuggets** module covers content for the matched exam objective items:

- 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 Lab**

Complete the following MeasureUp lab:

- [Deploying Windows 7](#)

**Complete: Transcender Optimized Test**

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

- [Deploying Windows 7](#)

### Configuring Hardware and Applications

The content and practice provided in this section represents 14% of the total 70-680 exam. **Configuring Hardware and Applications**

This section addresses the following competency:

- **Competency 402.1.3: Hardware Devices and Drivers**
  The graduate can implement, manage, monitor, and troubleshoot hardware devices and drivers.

In this section, you will learn about and gain practice:

- configuring hardware and applications
- configuring application compatibility
- configuring application restrictions
- configuring Internet Explorer

**Complete: CBT Nuggets Module**

The following **CBT Nuggets** module covers content for the matched exam objective items:
Complete: MeasureUp Lab

Complete the following MeasureUp lab:

- Configuring Hardware and Applications

Complete: Transcender Optimized Test

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

- Configuring Hardware and Applications

Configuring Network Connectivity

The content and practice provided in this section represents 14% of the total 70-680 exam.

Configuring Network Connectivity

This section addresses the following competency:

- Competency 402.1.6: Network Protocols and Services
  The graduate can implement, manage, and troubleshoot network protocols and services.

This topic highlights the following objectives:

- configuring IPv4 network settings
- configuring IPv6 network settings
- configuring network settings
- configuring remote management
- configuring Windows Firewall

Complete: CBT Nuggets Module

The following CBT Nuggets module covers content for the matched exam objective items:

- IPv4 Networking
- IPv6 Networking
- Wireless Networking
- Windows Firewall
- Remote Administration

Complete: MeasureUp Lab

Complete the following MeasureUp lab:

- Configuring Network Connectivity
Complete: Transcender Optimized Test

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

- Configuring Network Connectivity

**Configuring Access to Resources**

The content and practice provided in this section represents 13% of the total 70-680 exam.

**Configuring Access to Resources**

This section addresses the following competency:

- **Competency 402.1.6: Network Protocols and Services**
  The graduate can implement, manage, and troubleshoot network protocols and services.

This topic highlights the following objectives:

- configuring shared resources
- configuring file and folder access
- configuring user account control (UAC)
- configuring authentication and authorization
- configuring BrancheCache

**Complete: CBT Nuggets Module**

The following CBT Nuggets module covers content for the matched exam objective items:

- Accessing Resources Part 1
- Accessing Resources Part 2
- Authentication and User Account Control

**Complete: MeasureUp Lab**

Complete the following MeasureUp lab:

- Configuring Access to Resources

**Complete: Transcender Optimized Test**

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

- Configuring Access to Resources

**Configuring Mobile Computing**

The content and practice provided in this section represents 10% of the total 70-680 exam.

**Configuring Mobile Computing**

This section addresses the following competency:
• Competency 402.1.6: Network Protocols and Services
  The graduate can implement, manage, and troubleshoot network protocols and services.

This topic highlights the following objectives:

• configuring BitLocker and BitLocker To Go
• configuring DirectAccess, configuring mobility options
• configuring remote connections

Complete: CBT Nuggets Module

The following CBT Nuggets module covers content for the matched exam objective items:

• Remote Access
• Mobile Computing

Complete: MeasureUp Lab

Complete the following MeasureUp lab:

• Configuring Mobile Computing

Complete: Transcender Optimized Test

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

• Configuring Mobile Computing

Monitoring and Maintaining Systems That Run Windows 7

The content and practice provided in this section represents 11% of the total 70-680 exam.

Monitoring and Maintaining Systems That Run Windows 7

This section addresses the following competencies:

• Competency 402.1.2: Implementation and Management
  The graduate can implement and manage the administration of network.
• Competency 402.1.5: Desktop Environment
  The graduate can configure and troubleshoot the desktop environment.

This topic highlights the following objectives:

• configuring updates to Windows 7
• managing disks
• monitoring systems
• configuring performance settings

Complete: CBT Nuggets Module

The following CBT Nuggets module covers content for the matched exam objective items:
Managing Disks
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

## Configuring Backup and Recovery Options

The content and practice provided in this section represents 11% of the total 70-680 exam.

**Configuring Backup and Recovery Options**

This section addresses the following competency:

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

This topic highlights the following objectives:

- configuring backup
- configuring system recovery options
- configuring file recovery options

**Complete: CBT Nuggets Module**

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

- Backup and Recovery

**Complete: MeasureUp Lab**

Complete the following MeasureUp lab:

- Configuring Backup Recovery

**Complete: Transcender Optimized Test**

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

- Configuring Backup and Recovery Options

## Final Steps
Congratulations on completing the activities in this course! This course has helped prepare you to complete the associated assessments. If you have not already been directed to complete the assessments, schedule and complete your assessments now.

**First Attempt Checklist**

One of the many things that make 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.

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

1. Read, review, and/or utilize all of the learning resources: CBT Nuggets, MeasureUp and Transcender Practice exams. These resources are some of the best in the industry at helping you prepare for this difficult assessment. Do not skip anything.
2. Take a Transcender randomized practice exam. Based on the score report of this practice exam, revisit the CBT Nuggets materials for those areas indicated as needing additional study. When you review the practice exam results, select “Sort by Objective” as an option to help you focus on the objectives needing additional study.
3. Use your own hands-on lab, in conjunction with CBT Nuggets and MeasureUp, to review the objectives indicated by Transcender as needing additional study. This will help you gain additional familiarity with the technologies. Repeat this process until you can score 90% or higher at least 5 times on the Transcender randomized practice exam.
4. Contact a course instructor at cmMicrosoft@wgu.edu for additional resources and valuable test-taking strategies. This is very important, as a course instructor can provide valuable advice and save you time when you focus on exam preparation.

If this has been done, and you feel comfortable with all of the concepts presented, you are most likely ready to refer for the first attempt of the exam.

If the first attempt is failed, you will be required to get in contact with the course instructor to see what went wrong and how you can prepare to make sure your second attempt is a success. Once the course instructor feels you are ready to refer for the second attempt of the exam, he or she will approve your second exam referral. However, why not contact a course instructor before you make your first assessment attempt?