uCertify

# Course Outline

## MCSA Windows Server 2016 (70-740)




23 Mar 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary

   Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

   Syllabus

   Chapter 1: Introduction

   Chapter 2: Installing Windows Server 2016

   Chapter 3: Installing in the Enterprise

   Chapter 4: Configuring Storage and Replication

   Chapter 5: Understanding Hyper-V

   Chapter 6: Configuring High Availability

   Chapter 7: Understanding Clustering

   Chapter 8: Configuring Windows Containers

   Chapter 9: Maintaining Windows Server

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   Chapter 11: Appendix

   Videos and How To
9. Practice Test

   Here's what you get

   Features
10. Live labs

    Lab Tasks

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11. Post-Assessment

## 1. Course Objective

Gain the skills required to pass the MCSA 70-740 exam with the MCSA Windows Server 2016 (70-740) Study Guide. The lab can be mapped to any course, textbook, or training, therefore, adding value and hands-on components to training. The MCSA 70-740 cert guide course and lab cover the MCSA 70-740 exam objectives and will help you master the skills required to install, upgrade, and migrate servers; create and manage images; implement server storage; install and configure Hyper-V; and more.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

## 3. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.




## 4. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.




## 5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.




## 6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
    1. Best Postsecondary Learning Solution

- **2015**
    1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**
    1. Best Virtual Learning Solution
    2. Best Education Cloud-based Solution
    3. Best College and Career Readiness Solution
    4. Best Corporate / Workforce Learning Solution
    5. Best Postsecondary Learning Content Solution
    6. Best Postsecondary LMS or Learning Platform
    7. Best Learning Relationship Management Solution

- **2017**
    1. Best Overall Education Solution
    2. Best Student Assessment Solution
    3. Best Corporate/Workforce Learning Solution
    4. Best Higher Education LMS or Learning Platform

- **2018**
    1. Best Higher Education LMS or Learning Platform
    2. Best Instructional Solution in Other Curriculum Areas
    3. Best Learning Relationship Management Solution

- **2019**
    1. Best Virtual Learning Solution
    2. Best Content Authoring Development or Curation Solution
    3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## Syllabus

### Chapter 1: Introduction

- The Microsoft Certification Program
- Who Should Read This Course?
- What’s Inside?
- What’s Included with the Course
- Recommended Home Lab Setup
- Certification Objectives Maps

### Chapter 2: Installing Windows Server 2016

- Features and Advantages of Windows Server 2016
- Planning the Windows Server 2016 Installation
- Activating and Servicing Windows
- Using Windows Deployment Services
- Understanding Features On Demand
- Summary
- Exam Essentials

## Chapter 3: Installing in the Enterprise

- Understanding Automated Deployment Options
- Deploying Unattended Installations
- Understanding Hyper-V
- Summary
- Exam Essentials

## Chapter 4: Configuring Storage and Replication

- Understanding File Systems
- Storage in Windows Server 2016

- Configuring Permissions
- Configuring Disk Quotas
- Windows PowerShell
- Using Server Manager
- Understanding Data Deduplication
- Summary
- Exam Essentials

## Chapter 5: Understanding Hyper-V

- Hyper-V Overview
- Hyper-V Installation and Configuration
- Configuring Virtual Machines
- PowerShell Commands
- Summary
- Exam Essentials

## Chapter 6: Configuring High Availability

- Components of High Availability
- Achieving High Availability

- Understanding Network Load Balancing
- Achieving High Availability with Hyper-V
- Summary
- Exam Essentials

## Chapter 7: Understanding Clustering

- Achieving High Availability with Failover Clustering
- Windows Server 2016 Clustering Features
- PowerShell Commands for Clustering
- Implementing Storage Spaces Direct
- Summary
- Exam Essentials

## Chapter 8: Configuring Windows Containers

- Understanding Windows Containers
- Using PowerShell for Containers
- Summary
- Exam Essentials

### Chapter 9: Maintaining Windows Server

- Configuring Windows Server Updates
- Understanding Backups
- PowerShell Commands
- Summary
- Exam Essentials

### Chapter 10: Understanding Monitoring

- Overview of Windows Server 2016 Performance Monitoring
- Using Windows Server 2016 Performance Tools
- Summary
- Exam Essentials

### Chapter 11: Appendix

- Video Tutorial

## Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

| 12 | 45 |
|---|---|
| VIDEOS | MINUTES |

## 11. Practice Test

### Here's what you get

| 60 | 2 | 60 |
|---|---|---|
| PRE-ASSESSMENTS QUESTIONS | FULL LENGTH TESTS | POST-ASSESSMENTS QUESTIONS |

### Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

#### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 12. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

# Lab Tasks

**Installing Windows Server 2016**

- Installing Nano Server
- Installing Server 2016 Datacenter (Desktop Experience)
- Installing Windows Deployment Services
- Installing Features from a WIM File

**Installing in the Enterprise**

- Installing and Configuring MDT
- Using the sysprep Command
- Creating a Machine using Checkpoint in Hyper-V
- Installing Alpine in Hyper-V

**Configuring Storage and Replication**

- Creating Mount Points
- Installing MPIO

- Installing and Configuring iSCSI Target Server
- Installing the iSNS Feature on Windows Server 2016
- Installing the DCB
- Setting Up Compression on a Folder
- Setting Up Encryption on a Folder
- Setting Up Permissions on a Folder
- Sharing a Folder
- Installing the NFS Data Store
- Installing and Creating Disk Quotas using FSRM
- Installing and Enabling Data Deduplication
- Converting a FAT32 Partition to NTFS
- Initializing a Disk
- Converting a Basic Disk into Dynamic Disk
- Creating a Storage Pool

**Understanding Hyper-V**

- Creating a Virtual Switch with Internet Access
- Creating a New Virtual Hard Disk
- Installing Hyper-V

**Configuring High Availability**

- Installing NLB
- Configuring the NLB cluster

**Understanding Clustering**

- Installing the Failover Cluster Feature
- Configuring Quorum
- Creating a Cluster
- Modifying the Default Networking Configuration Using the Failover Cluster Manager
- Configuring the Node Fairness Feature
- Installing a Scale-Out File Server
- Creating a Clustered Role
- Configuring Drain on Shutdown

**Maintaining Windows Server**

- Installing WSUS server
- Configuring a GPO for WSUS
- Installing Windows Server Backup
- Taking a Local Backup

**Understanding Monitoring**

- Using Wireshark to Monitor Network Performance
- Using Windows Event Viewer
- Using MBSA
- Installing and Configuring SNMP

## Here's what you get

| 45 | 45 | 03:19 |
|---|---|---|
| LIVE LABS | VIDEO TUTORIALS | HOURS |

## 13. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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