uCertify

Course Outline

MCSA Windows Server 2016 (70-741)

16 Apr 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: Configuring TCP/IP

   Chapter 3: Configuring DNS

   Chapter 4: Configuring DHCP

   Chapter 5: Implement IP Address Management

   Chapter 6: Configuring Network Access

   Chapter 7: Understanding File Services

   Chapter 8: Configuring High Availability

   Chapter 9: Implementing Software Defined Networking

   Chapter 10: Appendix

   Videos and How To
9. Practice Test

   Here's what you get

   Features
10. Live labs

    Lab Tasks

    Here's what you get
11. Post-Assessment

1. Course Objective

Start your prep for the 70-741 exam with the MCSA Windows Server 2016 Study Guide. The lab is cloud-based, device-enabled, and can easily be integrated with an LMS. The MCSA study guide covers the 70-741 exam objectives and includes topics such as implementing a Domain Name System (DNS), DHCP, and IPAM; implementing core and distributed network solutions; and more. The MCSA 70-741 course is for candidates willing to prove their expertise in the Windows Server 2016.

2. Pre-Assessment

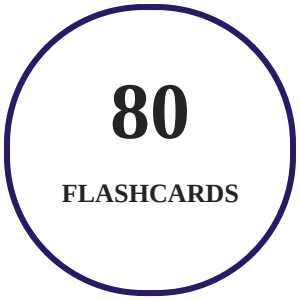
Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

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: Configuring TCP/IP

- Understanding TCP/IP
- Understanding IP Addressing
- Subnetting a Network
- Understanding IPv6
- Summary
- Exam Essentials

Chapter 3: Configuring DNS

- Introducing DNS
- Introducing DNS Database Zones
- Advantages of DNS in Windows Server 2016
- Introducing DNS Record Types
- Configuring DNS
- Monitoring and Troubleshooting DNS
- DNS PowerShell Commands
- Summary
- Exam Essentials

Chapter 4: Configuring DHCP

- Understanding DHCP
- Installing and Authorizing DHCP
- Creating and Managing DHCP Scopes
- Working with Advanced DHCP Configuration Options
- PowerShell Commands
- Summary
- Exam Essentials

Chapter 5: Implement IP Address Management

- Understanding IPAM
- Managing Services
- IPAM Access and Auditing
- PowerShell Commands for IPAM
- Summary
- Exam Essentials

Chapter 6: Configuring Network Access

- Overview of Dial-Up Networking

- Overview of Virtual Private Networks
- Configuring Your Remote Access Server
- Understanding a VPN
- Configuring a VPN
- Managing Your Remote Access Server
- Configuring a VPN Client
- Configuring a Web Application Proxy
- Understanding DirectAccess
- Overview of Wireless Access
- Remote Access Security
- Configuring User Access
- Configuring Security
- PowerShell for Remote Access
- Summary
- Exam Essentials

Chapter 7: Understanding File Services

- Configuring File Server Resource Manager

- Configure File and Disk Encryption
- Configuring Distributed File System
- Configure Advanced File Services
- Implementing an Audit Policy
- Configure and Optimize Storage
- Summary
- Exam Essentials

Chapter 8: Configuring High Availability

- Components of High Availability
- Achieving High Availability
- Understanding Network Load Balancing
- Achieving High Availability with Failover Clustering
- Windows Server 2016 Clustering Features
- PowerShell Commands for Clustering
- Implementing Storage Spaces Direct
- Achieving High Availability with Hyper-V
- Summary

- Exam Essentials

Chapter 9: Implementing Software Defined Networking

- Understanding Software Defined Networking
- Hyper-V Overview
- Hyper-V Installation and Configuration
- Configuring Virtual Machines
- PowerShell Commands
- Summary
- Exam Essentials

Chapter 10: Appendix

- Video Tutorials

Videos and How To

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

91	22
VIDEOS	HOURS

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

Configuring DNS

- Installing and Configuring the DNS Server
- Disabling Dynamic Updates for a Zone
- Creating DNS RRs
- DNS Aging and Scavenging
- Performing Simple DNS Testing
- Using the nslookup Command

Configuring DHCP

- Installing a DHCP Server
- Authorizing and Unauthorizing a DHCP Server
- Enabling DHCP-DNS Integration
- Creating a New Scope
- Configuring User Class Options
- Creating a Superscope
- Creating a New Multicast Scope

- Removing the Database Files
- Creating and Activating a New DHCPv6 Scope
- Configuring DHCP Filtering
- Enabling DHCP Name Protection

Implement IP Address Management

- Installing the IPAM Feature
- Manually Adding IPAM IP Address and Blocks
- Configuring Role-Based Access Control

Configuring Network Access

- Installing the Remote Access Role
- Setting Up a VPN Server
- Changing Remote Access Logging Settings
- Creating a Network Access Policy
- Creating a VPN Network Access Policy
- Restricting a User Profile for Dial-In Access

Understanding File Services

- Installing and Enabling BitLocker in Windows Server 2016
- Installing the DFS Namespace Service
- Setting Up a DFS Namespace
- Configure the NFS Data Store
- Configuring BranchCache Firewall Exceptions
- Installing BranchCache on Windows Server 2016
- Enabling Auditing of Active Directory Objects
- Generating and Viewing Audit Logs
- Configuring the iSCSI Storage Connection
- Installing the iSNS Feature on Windows Server 2016

Configuring High Availability

- Installing NLB Nodes

- Installing the Failover Cluster Feature
- Running the Validate Configuration Wizard
- Configure Print Services Role
- Using the Dependency Viewer

Implementing Software Defined Networking

- Installing Hyper-V in Full Installation Mode
- Creating an Internal Virtual Network
- Creating a Differencing Hard Disk
- Creating a New Virtual Machine

Here's what you get

45	45	01:15
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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