MCSE 70-740:

1. Installing and Configuring Windows 10
2. Windows 10 Editions
3. Sharing Resources
4. Requirements for Connecting Two or More Systems together
5. Access to Shared Files and Folders
6. Permission Types
7. Printer Sharing on Windows 10, 8 and 7
8. Inheriting Permissions
9. Ad-hoc on Windows 10, 8 and 7
10. Host Sharing and Internet Connection Sharing
11. Remote Desktop Configuration
12. Telnet
13. Managing Disks
14. Backup and Restore
15. Installing Windows Server 2022
16. Installing Active Directory Domain Services
17. Forest and Domain Functional Level
18. Automating the Creation of User Accounts
19. Creating and Deleting an OU Object
20. Creating Users with Windows PowerShell and VBScript
21. Restarting a DC in DSRM Locally (Directory Service Restore Mode)
22. Managing an Enterprise with Groups
23. Automating the Creation and Management of Groups
24. Administering Groups in an Enterprise
25. Automating the Creation of Computer Objects
26. Working with Active Directory Snap-ins
27. Delegation and Security of Active Directory Objects
28. Understanding and Managing Permissions with Inheritance
29. Implementing Group Policy
30. Managing Group Policy Scope
31. Supporting Group Policy
32. Delegating the Support of Computers
33. Managing Software with Group Policy Software Installation
34. Configuring Password and Lockout Policies
35. Configuring Read-Only Domain Controllers

MCSE 70-741:

1. OSI vs TCP/IP
2. Understanding IP Version 4 Addressing
3. IP Classes
4. IP Addresses
5. Network and Host Parts and Default Masks
6. RFC 1918 Private Address Space
7. Math Operations for Subnetting
8. Analyzing Subnet Mask
9. Choosing the Subnets of a Classful Network/Subnet Zero
10. Designing a Subnetting Scheme Using VLSM
11. Finding VLSM Overlaps
12. Finding Best Summary
13. Choosing a Subnet Mask that Meets Design Requirements
14. Understanding IP Version 6 Addressing
15. IPV6 Addressing and Summarization Rules
16. Common IPV6 Multicast Addresses
17. IPv6 Address Configuration Options
18. Understanding Name Resolution in Windows Server 2019 Networks
19. Name Resolution Methods in Windows
20. What Is Link Local Multicast Name Resolution (LLMNR)?
21. What Is NetBIOS Name Resolution?
22. NetBIOS Name Resolution Methods
23. Enabling and Disabling NetBIOS
24. What Is DNS Name Resolution?
25. DNS Components
26. Understanding Recursion and Iteration
27. Root Hints
28. Deploying a DNS Server
29. Deploying a DNS Server on a Domain Controller
30. Deploying a DNS Server on a Stand-alone or Member Server
31. When to Use Conditional Forwarding
32. Creating and Configuring Zones
33. DNS Structure
34. DNS Zone
35. Creating Zones

36. Choosing Zone Type
37. Choosing a Zone Name
38. Configuring Dynamic Update Settings
39. Resource Records
    a. SOA (Start of Authority):
    b. Host (A or AAAA records):
    c. Alias (CNAME)
    d. PTR (Pointer)
    e. Mail Exchanger (MX)
    f. SRV (Service Location)
    g. NS (Name Servers)
40. Creating Resource Records
41. Configuring Zone Replication and Transfers
42. Creating Custom Application Directory Partitions
43. Configuring Delegation
44. Configuring DNS Client Settings
45. Specifying DNS Servers
46. Specifying a Computer Name and DNS Suffixes
47. Configuring Computer Name and DNS Suffixes for Self-Registration
48. Configuring a Connection-Specific DNS Suffix
49. Configuring IP Routing
50. Routing Overview
51. Types of Routing Protocols
52. Static Routing Protocol
53. Dynamic Routing Protocols
54. RRAS (Routing and Remote Access Services)
55. Installing Routing and Remote Access Services
56. Static and Default Routing
57. Configuring Static Routing with Routing and Remote Access
58. Configuring RIP
59. Installing Domain Controllers
60. Installing a Domain Controller with the Windows Interface
61. Understanding Single Master Operations
62. Forest-Wide Operations Master Roles
63. Domain-Wide Operations Master Roles
64. Placing Operations Masters
65. Identifying Operations Masters With User Interface Tools

66.Identifying Operations Masters with Command-Line Tools
67. Transferring Operations Master Roles
68. Recognizing Operations Master Failures
69. Seizing Operations Master Roles
70. Returning a Role to Its Original Holder
71. Managing Multiple Domains and Trust Relationships
72. Dedicated Forest Root Domain (Single-Domain Forest)
73. Trust Relationships Within a Domain
74. Trust Relationships Between Domains
75. Characteristics of Trust Relationships
76. Kerberos Authentication Within a Forest
77. Manual Trusts
    a. Shortcut trusts
    b. External trusts
    c. Realm trusts
    d. Forest trusts
78.Creating Manual Trust Relationships
79. Administering Trusts (Validate)
80. Selective Authentication
81. Configuring IPSec
82. Identifying IPSec Scenarios
83. IPSec Policies
84. Security Associations (SA)
85. Authentication Methods for IPSec
86. Assigning a Predefined IPSec Policy
87. Cryptography
88. Configuring Sites and Subnets
89. Understanding Sites
90. Replication Traffic
91. Planning Sites
92. Summarizing Site Planning Criteria
93. Defining Subnets
94. Configuring the Global Catalog
95. Universal Group Membership Caching (UGMC)
96. Connection Objects
97. Intra-site Replication
98. Notification

99. Site Link
100. Replication Transport Protocols
101. Bridgehead Servers
102. Preferred Bridgehead Servers
103. Site Link Transitivity
104. Site Link Bridges
105. Site Link Costs
106. Configuring Inter-site Replication
107. Replication Frequency
108. Replication (Site Link) Schedules
109. Replication Frequency on Connection Object

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MCSE 70-742:

1. Installing a DHCP Server
2. Understanding DHCP Address Assignment
3. Understanding Address Leases
4. Understanding DHCP Scopes
5. Understanding DHCP Options
6. Adding the DHCP Server Role
7. Configuring a DHCP Server
8. Performing Post-installation Tasks
9. Creating Address Exclusions
10. Creating Reservations
11. Adjusting Lease Durations
12. Configuring Additional DHCP Options
13. Controlling DHCP Access Through MAC Filtering
14. DHCP Delay Configuration
15. Using the DHCP Split-Scope Configuration Wizard
16. Using the DHCP Failover
17. Edit/Remove DHCP Failover
18. DHCP Policies
19. DHCP Policies Configuration
20. Configuring Network Address Translation
21. NAT and PAT
22. Types of NAT
23. Network Address Translation Concepts
24. Configuring Internet Connection Sharing
25. Configuring Network Address Translation Using Routing And Remote Access
26. Connecting to Remote Networks
27. Virtual Private Networks (VPN)
28. Secure Protocol Characteristics
29. VPN Protocols Supported by Windows Server 2019
30. Types of Authentication Methods
31. Configuring the VPN Server
32. Configuring the VPN Client
33. Configuring Network Policy Server
34. Windows Server 201٩ Network Policy Server

35. Network Policy Server Usage Scenarios
36. Configuring NPS
37. Configuring Windows Firewall
38. Firewall Profiles
39. Firewall Traffics
40. Configuring Firewall Settings with Group Policy
41. Understanding Windows Server Update Services
42. WSUS Overview
43. WSUS Architecture (Organizations with One Office)
44. WSUS Architecture (Organizations with Multiple Offices)
45. Types of WSUS Servers
    a. Upstream Server
    b. Downstream Server
46. Configuring WSUS
47. Managing File Security
48. NTFS File Permissions
49. Protecting Files and Folders with EFS
50. Encrypting File System (EFS)
51. EFS Recovery
52. Bitlocker
53. BitLocker Modes
    a. TPM with PIN
    b. TPM with Startup Key
    c. TPM with PIN and Startup Key
54. BitLocker without a TPM
55. BitLocker To Go
56. BitLocker Command to Lock a Volume
57. File Services
58. Installing the File Services Server Role
59. File Service Features
60. Quota Management
61. Screen Management
62. Report Management
63. DFS Management
64. Replication Management
65. Understanding Active Directory Certificate Services
66. Standalone vs. Enterprise Cas

67. Creating the CA Hierarchy
68. Best Practices for AD CS Deployments
69. Additional Planning Requirements
70. Preparing for AD CS Installation
71. Installing and Configuring Active Directory Certificate Services
72. Obtain and Install the Issuing CA Certificate
73. Protecting (Backup) AD CS Configuration
74. CA Role Services
75. DHCP Relay Agent
76. Windows Server Backup
77. Installing Windows Server Backup Features
78. Manually Performing a Backup
79. Scheduling Backups
80. Recovering Files or Volumes
81. Recovering from a Backup When Windows is not Online
82. Data Recovery Agent
83. Configuring a Data Recovery Agent

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MCSE 70-743:

1. Deploying a Remote Desktop Session Host
2. Remote Desktop Services
3. Understanding Remote Desktop Services
4. Comparing Remote Desktop Feature and Remote Desktop Services
5. Installing Remote Desktop Services
6. Uninstalling Applications
7. Configuring and Managing Remote Desktop Clients
8. Configuring Remote Desktop Client Settings
9. Configuring a Remote Desktop Session Host
10. Overview of RemoteApp
11. Configuring a Server to Host RemoteApp Programs
12. Overview of Remote Desktop Gateway
13. Remote Desktop Virtualization Host
14. Remote Desktop Connection Broker
15. Monitoring by CCProxy
16. Monitoring by RAdmin
17. Understanding Windows Deployment Services
18. Understanding WIM Files
19. WDS Tool Kits
20. Windows Automated Installation Kit (WAIK) Tools
21. Sysprep
22. Configuring Windows Deployment Services
23. Windows Deployment Methods
24. Understanding WDS Infrastructure Components
25. Understanding WDS Infrastructure Components
26. What Is PXE?
27. WDS Configuration
28. Deploying Virtual Machines
29. Why Virtualization?
30. Understanding Hyper-V
31. Create a Virtual Machine
32. Client Naming Policy
33. ARM Processor
34. OEM
35. UEFI

36. How to Install Hyper-V on vmware Workstation 12
37. Configuring Server Storage
38. Understanding Server Storage Technologies
39. Direct-Attached Storage (DAS)
40. Network-Attached Storage (NAS)
41. Storage-Area Networks (SAN)
42. Managing Disks, Volumes, and Partitions on Windows Server
43. Configuring Server Clusters
44. Server Cluster Fundamentals
45. Network Load Balancing
46. Failover Clustering
47. Configuring an NLB Cluster
48. Configuring a Failover Cluster
49. Advanced Failover Cluster Configuration
50. Installing and Configuring the Web Server (IIS) Role
51. Web Protocols
52. Verifying the IIS Installation by Using Internet Explorer
53. Understanding Sites and Site Bindings
54. Managing the Default Web Site
55. Adding Websites
56. Configuring Web Site Limits Settings
57. Understanding Web Applications
58. Creating Web Applications
59. Configuring Recycling Settings
60. Working with Virtual Directories
61. Creating a Virtual Directory
62. Understanding ApplicationHost.config
63. Restoring the ApplicationHost.config File
64. Using Centralized Configuration for Server Farms
65. Configuring IIS Security
66. Enabling Remote Management
67. Creating IIS Manager Users
68. Defining IIS Management Permissions
69. Configuring Feature Delegation
70. Connecting to a Remote Server by Using IIS Manager
71. Controlling Access to Web Services
72. Understanding Anonymous Authentication

73. Understanding Challenge-Based Authentication
74. Configuring Authentication Settings
75. Creating URL Authorization Rules
76. Understanding Server Certificates
77. Creating an Internet Certificate Request
78. Completing an Internet Certificate Request
79. Creating Other Certificate Types
80. Importing and Exporting Certificates
81. Enabling Secure Sockets Layer
82. Configuring IP Address and Domain Restrictions
83. Configuring HTTP Redirect
84. Creating a Web Site (Summary)
85. Configuring FTP
86. Installing the FTP Server
87. Creating a New FTP Site
88. Creating Application and Virtual Directories
89. Managing FTP Site Bindings
90. Configuring Authentication Options
91. Implementing IP Address and Domain Restrictions
92. Managing FTP Messages
93. Configuring Simple Mail Transfer Protocol (SMTP)
94. Active Directory Right Management Services (ADRMS)
95. ADRMS Configuration
96. Managing Printers
97. Installing the “Print and Document Services” Server Role
98. Sharing Printers
99. Configuring Print Server and Printer Permissions
100. Configuring Printer Pooling
101. Managing Internet Printing
102. Deploying Printers with Group Policy
103. Migrating Printers
104. Understanding and Installing AD LDS
105. Removing AD LDS
106. Preparing for AD LDS Instance Creation
107. Creating AD LDS Instances
108. Working with AD LDS Instances
109. Planning for Migration, Upgrade, and Restructuring