

MCP – 70-291 COURSE



The **Microsoft Certified Professional 70-291 (Implementing, Managing, and Maintaining a Windows Server 2003 Network) Course** is designed to provide students with the knowledge and skills to implement, manage, and maintain a Microsoft Windows Server 2003 network infrastructure.

It is intended for systems engineers, network designers, and network administrators who are responsible for tasks such as implementing, managing, and/or maintaining TCP/IP addressing and routing, Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), Windows Internet Name Service (WINS), remote access, as well as IPsec and certificates to secure Internet Protocol (IP) traffic.

Our unique distance learning training programme is delivered in Paper based and CD Rom materials and comes with an additional examination card displaying important information about the qualification and exams. The course also has access to Official CertBlaster and MeasureUp exam preparation software.

PLEASE NOTE: The MCP 70-291 Course is designed as a theory-based course but does contain all relevant information on how to complete practical exercises if you have the available equipment, software & resources available.

Benefits of MCP Certification:

- Industry recognition of your knowledge with Microsoft products and technologies;
- Access to technical and product information, through the MCP Secured site;
- Invitations to Microsoft conferences, technical training sessions, and special events.; and
- An MCP logo, certificate, transcript, wallet card, and lapel pin to identify you as an Microsoft Certified Professional (MCP) to colleagues or clients.

Course Objectives:

- Describe a network and identify the features of Windows Server 2003 and its different editions, describe the different network types and common network protocols, outline the Open Systems Interconnection (OSI) model and identify the components of Windows Server 2003 networking architecture, and list common networking services available in Windows Server 2003.
- Describe TCP/IP addressing, define and configure TCP/IP parameters, work with TCP/IP networks, describe the process of subnetting and supernetting a TCP/IP network, configure other network protocols, and use bindings to optimize network connectivity.
- Explain the overall architecture of TCP/IP, identify Application layer protocols in the TCP/IP protocol suite, compare and contrast the TCP and UDP Transport layer protocols, explain the role of various Internet layer protocols including IP, ICMP, and ARP, and describe different Network Interface layer protocols.

Price:
£200.00

Instalment Options:
You can spread the payments for this course over 4 monthly payments. 1 initial payment of £80.00, followed by 3 monthly payments of £40.00.

Course Format:
Course Books with CD ROMs & Online Practice Exams

Assessment:
Microsoft's 70-291 Examination

Approximate Study Time:
100 Hours of Self Study

- Outline the benefits of using DHCP and describe the DHCP lease and renewal process, install and authorize the DHCP service, configure DHCP scopes, create DHCP reservations for client computers, configure DHCP options, describe the purpose of a DHCP relay agent, and install and configure a DHCP relay agent.
- Back up and restore DHCP databases, reconcile DHCP scopes and use the jetpack utility to repair a DHCP database, view DHCP statistics and audit logs, configure conflict detection, bind the DHCP service to certain network cards, and view and interpret DHCP events in Event Viewer and troubleshoot common DHCP problems.
- View and configure NetBIOS names, describe the host name resolution process, resolve NetBIOS names and configure NetBIOS name resolution using the LMHOSTS file and WINS, troubleshoot name resolution.
- Describe the functions of the Domain Name System and install DNS, describe the function and types of DNS zones and configure DNS zones, zone replication, and caching-only server, integrate Active Directory and DNS, including Dynamic DNS, configure and manage a DNS server, manage DNS zones, troubleshoot the DNS service.
- Install and configure WINS replication, manage WINS server, use WINS proxy, troubleshoot the WINS service.
- Describe IP security issues and how the IPSec protocol addresses them and identify the features of different types of encryption, choose the appropriate IPSec mode for a given situation and implement authentication for IPSec, enable IPSec using IPSec policies, create IPSec policies and create and manage IP Filter Lists and Filter Actions, and monitor and troubleshoot IPSec.

The MCP 70-291 Certification course consists of the following items:

➤ **[MCP 70-291 Certification Course Book](#)**

The following Units are covered in the MCP 70-291 Course Book:

- **Unit 1 – Networking Overview**

The following topics are covered in this Unit: Windows Server 2003 family, Network architectures and Common network services.

- **Unit 2 – Configuring Network Protocols**

The following topics are covered in this Unit: TCP/IP overview, TCP/IP addressing and routing, Subnetting and supernetting, Configuring other protocols and Configuring protocol bindings.

- **Unit 3 – Dynamic Host Configuration Protocol**

The following topics are covered in this Unit: DHCP overview, DHCP server installation and authorization, DHCP scopes, DHCP reservations and DHCP options and DHCP relay agents.

- **Unit 4 – TCP/IP Architecture**

The following topics are covered in this Unit: TCP/IP architecture overview, Application layer protocols, Transport layer protocols, Internet layer protocols and Network Interface layer protocols.

- **Unit 5 – Manage and Monitor a DHCP Server**

The following topics are covered in this Unit: Back up and restore DHCP databases, DHCP database maintenance, DHCP statistics and audit logs, Conflict detection, DHCP bindings and DHCP events and troubleshooting.

- **Unit 6 – Name Resolution**

The following topics are covered in this Unit: Name types, Host name resolution, NetBIOS name resolution and Troubleshooting name resolution.

- **Unit 7 – Domain Name System**

The following topics are covered in this Unit: DNS service, DNS zones, Active Directory and DNS, DNS server management, Zone management and Troubleshooting DNS.

- **Unit 8 – Windows Internet Naming Service**

The following topics are covered in this Unit: WINS installation and configuration and Manage and troubleshoot WINS.

- **Unit 9 – Internet Protocol Security**

The following topics are covered in this Unit: IPSec overview, IPSec modes and authentication, Enabling IPSec, IPSec policies and Troubleshooting IPSec.

- **Unit 10 – Remote Access**

The following topics are covered in this Unit: Remote access overview, Dial-up servers, VPN servers, Remote access server configuration, Client access, Remote access policies and Troubleshooting remote access.

- **Unit 11 – Internet Authentication Service**

The following topics are covered in this Unit: RADIUS overview, Configure IAS as a RADIUS server, Configure RRAS as a RADIUS client, Configure IAS as a RADIUS proxy and Troubleshooting RADIUS.

- **Unit 12 – Routing**

The following topics are covered in this Unit: Router configuration, Routing tables, Routing protocols, Filtering router traffic, Demand-dial connections and Troubleshooting routing.

- **Unit 13 – Security Templates**

The following topics are covered in this Unit: The Security Configuration Manager tools, Predefined security templates, Creating security templates and Security template management and troubleshooting.

- **Unit 14 – Troubleshooting Windows Server 2003 Networks**

The following topics are covered in this Unit: Troubleshooting methodologies, Troubleshooting tools and Troubleshooting network connectivity.

- **MCP 70-291 Skill Builder CBT CD Rom Course**

An interactive CBT CD Rom Based course covering the full MCP 70-291 syllabus is included as an alternative to the paper-based materials.

- **MCP 70-291 Online CertBlaster Software**

The course comes with DTI Publishing's Online CertBlaster exam preparation software absolutely free. CertBlaster covers mock examination questions in multiple choice or multiple answer formats. This software is the perfect addition to help prepare for your exam.

➤ MCP 70-291 CD Rom MeasureUp Software

The MeasureUp Practice Tests prepare you to pass the certification exam and the exams of daily life on the job. Practice tests are written by industry experts in the subject matter. They work closely with certification providers to understand the exam objectives, participate in beta testing and take the exam themselves before creating new practice tests. MeasureUp's quality content and innovative technology have earned the prestigious credential of Microsoft Certified Practice Test Provider.

Pre-Requirements:

It is recommended that you have some experience in implementing and administering large networks. You should be familiar with the use and working of Personal Computers and should ideally be certified to any of the following qualification levels:

- CompTIA A+ and Network+
- MCP Exam 70-270

Course Duration & Support:

Students may register at any time. The courses are designed as self-study courses but if you have any problems you can email our email support. As the course is self study you can complete in as little or as long a time as you prefer, and we do not impose a cut-off date for study.

Assessment:

Assessment is from the Microsoft 70-291 Examination. Examinations are in a multiple choice/multiple answer format.

Qualification:

On Completion of the MCP 70-291 Certification Courses, you can apply for the Microsoft **70-291 Examination**.

Examinations must be sat at a registered Prometric testing centre and are currently £99.00 + VAT each.

You can locate testing centres and schedule appointments on their Website:

Prometric website – <http://www.prometric.com/>

