



### MCSE at a glance

#### Target audience:

IT professionals who analyze the business requirements and design, plan, and implement the infrastructure for business solutions based on the Microsoft Windows Server System™ integrated server software.

#### Typical job titles for MCSE:

- Systems Engineer
- Technical Support Engineer
- Systems Analyst
- Network Analyst
- Technical Consultant

#### Experience:

MCSE candidates should have at least one year of experience planning, implementing, and analyzing business solutions with Microsoft products and technologies.

#### Exam requirements:

Six core exams and one elective exam.

### The value of MCSE certification to IT professionals:

- Certification validates your ability to design a network and infrastructure based on the Active Directory service, as well as implement and administer a network and desktop operating system.
- The MCSE credential enhances and distinguishes your professional status as a systems engineer.
- Certification improves proficiency with Windows Server 2003 by raising awareness of time-saving product features and capabilities.

### The value of MCSE certification to hiring managers and organizations:

- Certification strengthens organizations by identifying top-quality talent that is proficient on Windows Server 2003.
- MCSE-certified staff are better able to increase customer satisfaction and decrease support costs through improved service, productivity, and technical self-sufficiency.
- Microsoft certifications serve as reliable benchmarks for hiring and promotions.

For more information, visit the Microsoft Learning Web site or contact your local Microsoft CTEC.

[www.microsoft.com/mcse](http://www.microsoft.com/mcse)



## Microsoft Certified Systems Engineer

### On Windows Server 2003



**The Microsoft® Certified Systems Engineer (MCSE) credential is the premier certification for professionals who can successfully design, plan, and implement a network infrastructure, Active Directory®-based infrastructure, and client deployment on the Microsoft Windows Server™ 2003 platform. They also perform maintenance at a high level for a medium- to large-sized Windows Server 2003-based environment.**

### Technology that combines functionality, reliability, and seamless integration.

Windows Server™ 2003 is Microsoft's most scalable, reliable, and high-performing server operating system to date, built to handle the most complex business applications. It is designed to simplify migration from previous versions of Windows, manage mission-critical data with enhanced security technology, and provide maximum server uptime for sophisticated business needs.

### MCSE certification is the benchmark of success.

Professional certification designates you as a top-tier IT professional. When you follow the Windows Server 2003 learning path, you can strive to achieve the highest certification: MCSE on Windows Server 2003. You can earn the Microsoft Certified Systems Administrator (MCSA) credential as you work toward achieving the MCSE certification. Investigate your short-term and long term plans and choose the exams that best meet your professional goals.

### Move ahead of the competition with quality, flexible learning solutions.

Comprehensive preparation tools such as Microsoft Official Courses, Microsoft Official Workshops, and Microsoft Press® Self-Paced Training Kits have been designed to give you the detailed technical information you need. Microsoft Certified Technical Education Centers (Microsoft CTECs) deliver these Microsoft Official Learning Products as well as other consultative services to help you gain knowledge and apply your skills. Microsoft Skills Assessments evaluate whether you are ready to implement specific business solutions and provide you with recommended ways to increase your knowledge and skills.

Microsoft Official Learning Products and Microsoft Press books that will help you prepare for the certification exams are clearly outlined on the following page, so that you can be confident in your knowledge and skills prior to putting them to the test.

### Demonstrate your specific expertise by earning a certification specialization.

To recognize those systems engineers whose job role focuses on implementing and maintaining server security, Microsoft offers the new MCSE: Security certification specialization. Systems engineers with expertise in the management of a Microsoft Exchange Server messaging infrastructure can pursue the new MCSE: Messaging certification specialization. For more information, visit [www.microsoft.com/mcse](http://www.microsoft.com/mcse).

**Convenient upgrade paths to MCSE on Windows Server 2003 are available now. See back for details.**

Upgrade from MCSE on Windows 2000 two exams required	Upgrade from MCSE on Windows NT 4.0 six exams required	Upgrade from MCSA on Windows 2000 four exams required
<p><b>Core Networking exams</b></p> <p><b>Exam 70-292:</b> Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000</p> <p><b>Exam 70-296:</b> Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE Certified on Windows 2000</p> <p><b>Training resources:</b></p> <p><b>Course 2297:</b> Planning, Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE Certified on Windows 2000 (available November 2003)</p> <p>OR</p> <p><b>Workshop 2207:</b> Expert Track: Updating Systems Administrator and Engineer Skills from Microsoft Windows 2000 to Windows Server 2003 (5 days)</p> <p><i>MCSA/MCSE Self-Paced Training Kit (Exams 70-292 and 70-296) (ISBN 0-7356-1971-9)</i></p>	<p><b>Core Networking exams</b></p> <p><b>Exam 70-290:</b> See description inside</p> <p><b>Exam 70-291:</b> See description inside</p> <p><b>Exam 70-293:</b> See description inside</p> <p><b>Exam 70-294:</b> See description inside</p> <p><b>Core Client exams</b></p> <p><b>Exam 70-270:</b> See description inside</p> <p><b>Core Design exams</b></p> <p><b>Exam 70-297 OR Exam 70-298:</b> See descriptions inside</p> <p><b>Training resources:</b></p> <p><b>Course 2208:</b> (Exams 70-290 and 70-291) Updating Support Skills from Microsoft Windows NT 4.0 to Microsoft Windows Server 2003 (3 days)</p>	<p><b>Core Networking exams</b></p> <p><b>Exam 70-292:</b> See description at left</p> <p><b>Exam 70-293:</b> See description inside</p> <p><b>Exam 70-294:</b> See description inside</p> <p><b>Core Design exams</b></p> <p><b>Exam 70-297 OR Exam 70-298:</b> See descriptions inside</p> <p><b>Training resources:</b></p> <p><b>Course 2299:</b> Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000 (available November 2003)</p> <p>OR</p> <p><b>Workshop 2209:</b> Expert Track: Updating Systems Administrator Skills from Microsoft Windows 2000 to Windows Server 2003 (2 days)</p> <p><i>MCSA/MCSE Self-Paced Training Kit (Exams 70-292 and 70-296) (ISBN 0-7356-1971-9)</i></p>



# MCSE on Windows Server 2003

**Core exams:** six required  
**Elective exams:** one required

EXAMS	MICROSOFT OFFICIAL LEARNING PRODUCTS	MICROSOFT PRESS BOOKS
<b>Core Networking exams</b> four exams required		
<b>Exam 70-290:</b> Managing and Maintaining a Microsoft Windows Server 2003 Environment	<b>Course 2273:</b> <sup>1</sup> Managing and Maintaining a Microsoft Windows Server 2003 Environment (5 days)	<i>MCSA/MCSE Self-Paced Training Kit: Managing and Maintaining a Microsoft Windows Server 2003 Environment (Exam 70-290)</i> (ISBN 0-7356-1437-7) <sup>2</sup>
<b>Exam 70-291:</b> Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure	<b>Course 2276:</b> Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts (2 days) <b>Course 2277:</b> Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services (5 days)	<i>MCSA/MCSE Self-Paced Training Kit: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (Exam 70-291)</i> (ISBN 0-7356-1439-3) <sup>2</sup>
<b>Exam 70-293:</b> Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure	<b>Course 2278:</b> Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (5 days)	<i>MCSE Self-Paced Training Kit: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (Exam 70-293)</i> (ISBN 0-7356-1893-3) <sup>2</sup>
<b>Exam 70-294:</b> Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure	<b>Course 2279:</b> Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure (5 days)	<i>MCSE Self-Paced Training Kit: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure (Exam 70-294)</i> (ISBN 0-7356-1438-5) <sup>2</sup>
<b>Core Client exams</b> <sup>3</sup> one exam required		
<b>Exam 70-270:</b> Installing, Configuring, and Administering Microsoft Windows® XP Professional	<b>Course 2285:</b> Installing, Configuring, and Administering Microsoft Windows XP Professional (2 days) <b>OR</b> <b>Course 2272:</b> Implementing and Supporting Microsoft Windows XP Professional (5 days)	<i>MCSE Training Kit: Microsoft Windows XP Professional (Exam 70-270)</i> (ISBN 0-7356-1429-6)
<b>Core Design exams</b> <sup>4</sup> one exam required		
<b>Exam 70-297:</b> <sup>5</sup> Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure	<b>Course 2282:</b> Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (5 days)	<i>MCSE Self-Paced Training Kit: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (Exam 70-297)</i> (ISBN 0-7356-1970-0)
<b>Exam 70-298:</b> <sup>5</sup> Designing Security for a Microsoft Windows Server 2003 Network	<b>Course 2830:</b> Designing Security for Microsoft Networks (3 days)	<i>MCSE Self-Paced Training Kit: Designing Security for a Microsoft Windows Server 2003 Network (Exam 70-298)</i> (ISBN 0-7356-1969-7)
<b>Elective exams</b> one exam required		
<b>Exam 70-086:</b> <sup>6</sup> Implementing and Supporting Microsoft Systems Management Server 2.0	<b>Course 828:</b> Deploying and Supporting Microsoft Systems Management Server 2.0 (5 days) <b>Course 827:</b> Administering Microsoft Systems Management Server 2.0 (3 days)	<i>MCSA/MCSE Microsoft Systems Management Server 2.0 Training Kit</i> (ISBN: 1-57231-834-1). This book is out of print. Check with your local retailer for availability.
<b>Exam 70-227:</b> <sup>6,7</sup> Installing, Configuring, and Administering Microsoft Internet Security and Acceleration (ISA) Server 2000, Enterprise Edition	<b>Course 2159:</b> Deploying and Managing Microsoft Internet Security and Acceleration Server 2000 (3 days)	<i>MCSE Training Kit: Microsoft Internet Security and Acceleration Server 2000</i> (ISBN 0-7356-1347-8)
<b>Exam 70-228:</b> <sup>6</sup> Installing, Configuring, and Administering Microsoft SQL Server™ 2000 Enterprise Edition	<b>Course 2072:</b> Administering a Microsoft SQL Server 2000 Database (5 days)	<i>MCSE Training Kit: Microsoft SQL Server 2000 System Administration</i> (ISBN 0-7356-1247-1)
<b>Exam 70-229:</b> Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition	<b>Course 2073:</b> Programming a Microsoft SQL Server 2000 Database (5 days) <b>Course 2071:</b> Querying Microsoft SQL Server 2000 with Transact-SQL (2 days)	<i>MCSE Training Kit: Microsoft SQL Server 2000 Database Design and Implementation</i> (ISBN 0-7356-1248-X)
<b>Exam 70-232:</b> Implementing and Maintaining Highly Available Web Solutions with Microsoft Windows 2000 Server Technologies and Microsoft Application Center 2000	<b>Course 2203:</b> Deploying and Managing Microsoft Application Center 2000 (2 days)	Currently, a corresponding Microsoft Press® title is not available.
<b>Exam 70-284:</b> <sup>8</sup> Implementing and Managing Microsoft Exchange Server 2003	<b>Course 2400:</b> Implementing and Managing Microsoft Exchange Server 2003 (5 days) <b>Workshop 2011:</b> Troubleshooting Microsoft Exchange Server 2003 (3 days)	<i>MCSA/MCSE Self-Paced Training Kit: Implementing and Managing Microsoft Exchange Server 2003 (Exam 70-284)</i> (ISBN 0-7356-1899-2)
<b>Exam 70-285:</b> <sup>8</sup> Designing a Microsoft Exchange Server 2003 Organization	<b>Clinic 2008:</b> Designing a Microsoft Exchange Server 2003 Organization (4 days)	Currently, a corresponding Microsoft Press title is not available.
<b>Exam 70-297:</b> <sup>5</sup> Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure	<b>Course 2282:</b> Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (5 days)	<i>MCSE Self-Paced Training Kit: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (Exam 70-297)</i> (ISBN 0-7356-1970-0)
<b>Exam 70-298:</b> <sup>5,7</sup> Designing Security for a Microsoft Windows Server 2003 Network	<b>Course 2830:</b> Designing Security for Microsoft Networks (3 days)	<i>MCSE Self-Paced Training Kit: Designing Security for a Microsoft Windows Server 2003 Network (Exam 70-298)</i> (ISBN 0-7356-1969-7)
<b>Exam 70-299:</b> <sup>7</sup> Implementing and Administering Security in a Microsoft Windows Server 2003 Network	<b>Course 2823:</b> Implementing and Administering Security in a Microsoft Windows Server 2003 Network (5 days)	<i>MCSA/MCSE Self-Paced Training Kit: Implementing and Administering Security in a Microsoft Windows Server 2003 Network (Exam 70-299)</i> (ISBN 0-7356-2061-X)
<b>Exam SY0-101:</b> CompTIA Security+ <sup>7</sup> certification	<b>Course 2810:</b> Fundamentals of Network Security (4 days)	<i>Security+ Certification Training Kit</i> (ISBN 0-7356-1822-4)
<b>Exam UN0-101:</b> Unisys Data Center Certified Professional certification	Currently, a corresponding Microsoft Official Learning Product is not available.	Currently, a corresponding Microsoft Press title is not available.

As an alternative to the electives listed above, these Microsoft certifications may substitute for the MCSE elective requirement:  
**MCSA on Microsoft Windows 2000, MCSE on Microsoft Windows 2000, or MCSE on Microsoft Windows NT 4.0**<sup>9</sup>

<sup>1</sup> This course is also offered as eight days of instructor-led training (as two courses: 2274 and 2275) for students who prefer a more complete classroom training experience

<sup>2</sup> This book is also one of the four books contained in *MCSE Self-Paced Training Kit (Exams 70-290, 70-291, 70-293, 70-294): Microsoft Windows Server 2003 Core Requirements* (ISBN: 0-7356-1953-0).

<sup>3</sup> The core client exam requirement can also be satisfied with Exam 70-210: Installing, Configuring, and Administering Microsoft Windows 2000 Professional or Exam 70-240: Microsoft Windows 2000 Accelerated Exam for MCPs Certified on Microsoft Windows NT 4.0. Exam 70-240 is no longer available.

<sup>4</sup> Candidates may also take Exams 70-219, 70-220, 70-221, or 70-226 to satisfy the Core Design exam requirement.

<sup>5</sup> Exams 70-297 and 70-298 may each count once as either one Core Design or one Elective exam.

<sup>6</sup> Exams 70-086, 70-227, and 70-228 may each count toward both the MCSA and MCSE elective exam requirements.

<sup>7</sup> Exams 70-227, 70-298, 70-299, and CompTIA Security+ satisfy both the MCSE elective and MCSE: Security specialization requirements.

<sup>8</sup> Exams 70-284 and 70-285 satisfy both the MCSE elective and MCSE: Messaging specialization requirements.

<sup>9</sup> Exams are no longer available for the MCSE on Microsoft Windows NT 4.0 certification, but individuals who have earned this credential remain certified.