

The value of MCSE certification to IT professionals:

- Validates the 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.
- Enhances and distinguishes professional status as a systems engineer.
- 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:

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

For more information, visit the [Microsoft Learning Web site](#), or contact a local [Microsoft Certified Partner for Learning Solutions](#).

www.microsoft.com/mcse

Upgrade path for certified professionals

Microsoft has designed an upgrade path to earn the MCSE on Windows Server 2003 credential in a time- and cost-effective manner.

Upgrade from MCSE on Windows 2000 (2 exams required)	Upgrade from MCSE on Windows NT 4.0 (6 exams required)	Upgrade from MCSA on Windows 2000 (4 exams required)
<p>Core Networking exams</p> <p>Exam 70-292: Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000</p> <p>Exam 70-296: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE Certified on Windows 2000</p> <p>Training resources:</p> <p>Course 2297: Planning, Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Environment for an MCSE Certified on Windows 2000</p> <p>OR</p> <p>Workshop 2207: 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)</i> (ISBN 0-7356-1971-9)</p>	<p>Core Networking exams</p> <p>Exam 70-290: Managing and Maintaining a Microsoft Windows Server 2003 Environment</p> <p>Exam 70-291: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure</p> <p>Exam 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure</p> <p>Exam 70-294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure</p> <p>Core Client exams</p> <p>Exam 70-270: Installing, Configuring, and Administering Microsoft Windows® XP Professional</p> <p>Core Design exams</p> <p>Exam 70-297:⁷ Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure</p> <p>OR</p> <p>Exam 70-298:⁷ Designing Security for a Microsoft Windows Server 2003 Network</p> <p>Training resources:</p> <p>Course 2208: (Exams 70-290 and 70-291) Updating Support Skills from Microsoft Windows NT 4.0 to Microsoft Windows Server 2003 (3 days)</p>	<p>Core Networking exams</p> <p>Exam 70-292: See description at left</p> <p>Exam 70-293: See description at left</p> <p>Exam 70-294: See description at left</p> <p>Core Design exams</p> <p>Exam 70-297</p> <p>OR</p> <p>Exam 70-298: See descriptions at left</p> <p>Training resources:</p> <p>Course 2299: Managing and Maintaining a Microsoft Windows Server 2003 Environment for an MCSA Certified on Windows 2000</p> <p>OR</p> <p>Workshop 2209: 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)</i> (ISBN 0-7356-1971-9)</p>

¹ Candidates who hold MCSA or MCSE on Windows 2000 may take exam 70-292 in place of exams 70-290 and 70-291.
² 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).
³ Candidates may also take Exams 70-219, 70-220, 70-221, or 70-226 to satisfy the Core Design exam requirement.
⁴ Exams 70-297 and 70-298 may each count once as either one core design exam or one elective exam.
⁵ Exams 70-086, 70-227, and 70-228 may each count toward both the MCSA and MCSE elective exam requirements.
⁶ CompTIA Security+ certification satisfies both the MCSE elective requirement and an MCSE: Security specialization requirement.
⁷ Although exams are no longer available for the MCSE on Microsoft Windows NT 4.0 certification, individuals who earned this credential remain certified.



Microsoft Certified Systems Engineer

On Windows Server 2003

MCSE at a Glance

PRIMARY 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 typically have at least one year of experience planning, implementing, and analyzing business solutions with Microsoft products and technologies.

MCP EXAMS REQUIRED:

6 core exams + 1 elective exam

MORE INFORMATION:

www.microsoft.com/mcse

Convenient upgrade paths to MCSE on Windows Server 2003 from previous versions of Microsoft Windows are available now. See back for details.



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. These individuals 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 top-tier IT professionals. By following the Windows Server 2003 learning path, IT professionals strive to achieve the highest certification: MCSE on Windows Server 2003. Individuals can earn the Microsoft Certified Systems Administrator (MCSA) credential while working toward achieving the MCSE certification. By assessing short-term and long term career plans, individuals can choose the exams that best meet specific professional goals.

Move ahead of the competition with quality, flexible learning solutions

Comprehensive preparation tools such as Official Microsoft Courses, available in both instructor-led and online formats, together with Official Microsoft Workshops, and Microsoft Press® Self-Paced Training Kits, are designed to give individuals detailed technical information in order to prepare for the certification exam and succeed on the job. Microsoft Certified Partners for Learning Solutions deliver these Official Microsoft Learning Products as well as other consultative services to build knowledge and provide opportunities to apply skills. Microsoft Skills Assessments evaluate whether individuals and organizations are prepared to implement specific business solutions and provide recommended ways to increase knowledge and skills.

Official Microsoft Learning Products and Microsoft Press books that provide the skills necessary to succeed on the job and prepare for the certification exams are clearly outlined on the following page.

Demonstrate 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 MCSE: Security certification specialization. Systems engineers with expertise in the management of a Microsoft Exchange Server messaging infrastructure can pursue the MCSE: Messaging certification specialization. For more information, visit www.microsoft.com/mcse.

MCSE on Windows Server 2003

Core exams: 6 required
Elective exams: 1 required

EXAMS	OFFICIAL MICROSOFT LEARNING PRODUCTS	MICROSOFT PRESS BOOKS
Core Networking Exams (4 exams required)		
Exam 70-290: ¹ Managing and Maintaining a Microsoft Windows Server 2003 Environment	Course 2273: Managing and Maintaining a Microsoft Windows Server 2003 Environment (5 days) OR Course 2274: Managing a Microsoft Windows Server 2003 Environment (5 days)* Course 2275: Maintaining a Microsoft Windows Server 2003 Environment (3 days)* OR Course 2208: Updating Support Skills from Microsoft Windows NT® 4.0 to Microsoft Windows Server 2003 (3 days)	MCSA/MCSE Self-Paced Training Kit: <i>Managing and Maintaining a Microsoft Windows Server 2003 Environment</i> (Exam 70-290) (ISBN 0-7356-1437-7) ² MCSE Self-Paced Training Kit: <i>Microsoft Windows Server 2003 Core Requirements, Exams 70-290, 70-291, 70-293, 70-294</i> (ISBN 0-7356-1953-0)
Exam 70-291: ¹ Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure	Course 2276: Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts (2 days)* Course 2277: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services (5 days)* OR Course 2208: Updating Support Skills from Microsoft Windows NT 4.0 to Microsoft Windows Server 2003 (3 days)	MCSA/MCSE Self-Paced Training Kit: <i>Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure</i> (Exam 70-291) (ISBN 0-7356-1439-3) ² MCSE Self-Paced Training Kit: <i>Microsoft Windows Server 2003 Core Requirements, Exams 70-290, 70-291, 70-293, 70-294</i> (ISBN 0-7356-1953-0)
Exam 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure	Course 2278: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (5 days)*	MCSE Self-Paced Training Kit (Exam 70-293): <i>Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure</i> (ISBN 0-7356-1893-3) ² MCSE Self-Paced Training Kit: <i>Microsoft Windows Server 2003 Core Requirements, Exams 70-290, 70-291, 70-293, 70-294</i> (ISBN 0-7356-1953-0)
Exam 70-294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure	Course 2279: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure (5 days)*	MCSE Self-Paced Training Kit: <i>Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure</i> (Exam 70-294) (ISBN 0-7356-1438-5) ² MCSE Self-Paced Training Kit: <i>Microsoft Windows Server 2003 Core Requirements, Exams 70-290, 70-291, 70-293, 70-294</i> (ISBN 0-7356-1953-0)
Core Client Operating System Exams (1 exam required)		
Exam 70-270: Installing, Configuring, and Administering Microsoft Windows® XP Professional	Course 2285: Installing, Configuring, and Administering Microsoft Windows XP Professional (2 days)* OR Course 2272: Implementing and Supporting Microsoft Windows XP Professional (5 days)	MCSE Training Kit: <i>Microsoft Windows XP Professional</i> (Exam 70-270) (ISBN 0-7356-1429-6)
Exam 70-210: ¹ Installing, Configuring, and Administering Microsoft Windows 2000 Professional	Course 2151: Microsoft Windows 2000 Network and Operating System Essentials (3 days) Course 2152: Implementing Microsoft Windows 2000 Professional and Server (5 days)	MCSA/MCSE Self-Paced Training Kit: <i>Microsoft Windows 2000 Professional, Second Edition</i> (Exam 70-210) (ISBN 0-7356-1766-X) MCSA Self-Paced Training Kit: <i>Microsoft Windows 2000 Core Requirements, Second Edition</i> (Exams 70-210, 70-215, 70-216 and 70-218) (ISBN 0-7356-1771-6)
Core Design Exams (1 exam required)		
Exam 70-297: ^{3,4} Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure	Course 2282: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (5 days)*	MCSE Self-Paced Training Kit: <i>Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure</i> (Exam 70-297) (ISBN 0-7356-1970-0)
Exam 70-298: ^{3,4} Designing Security for a Microsoft Windows Server 2003 Network	Course 2830: Designing Security for Microsoft Networks (3 days)*	MCSE Self-Paced Training Kit: <i>Designing Security for a Microsoft Windows Server 2003 Network</i> (Exam 70-298) (ISBN 0-7356-1969-7)
Elective Exams (1 exam required)		
Exam 70-086: ⁵ Implementing and Supporting Microsoft Systems Management Server 2.0	Course 828: Deploying and Supporting Microsoft Systems Management Server 2.0 (5 days) Course 827: Administering Microsoft Systems Management Server 2.0 (3 days)	MCSA/MCSE Microsoft Systems Management Server 2.0 Training Kit (ISBN: 1-57231-834-1). This book is out of print. Check with your local retailer for availability.
Exam 70-227: ⁵ Installing, Configuring, and Administering Microsoft Internet Security and Acceleration (ISA) Server 2000, Enterprise Edition	Course 2159: Deploying and Managing Microsoft Internet Security and Acceleration Server 2000 (3 days)	MCSE Training Kit: <i>Microsoft Internet Security and Acceleration Server 2000</i> (ISBN 0-7356-1347-8)
Exam 70-350: Implementing Microsoft Internet Security and Acceleration (ISA) Server 2004	Course 2824: Implementing Microsoft Internet Security and Acceleration Server 2004 (5 days)	MCSA/MCSE Self-Paced Training Kit: <i>Implementing Microsoft Internet Security and Acceleration Server 2004</i> (Exam 70-350) (ISBN 0-7356-2169-1)
Exam 70-228: ⁵ Installing, Configuring, and Administering Microsoft SQL Server™ 2000 Enterprise Edition	Course 2072: Administering a Microsoft SQL Server 2000 Database (5 days)	MCSE Training Kit: <i>Microsoft SQL Server 2000 System Administration</i> (ISBN 0-7356-1247-1)
Exam 70-229: Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition	Course 2073: Programming a Microsoft SQL Server 2000 Database (5 days) Course 2071: Querying Microsoft SQL Server 2000 with Transact-SQL (2 days)	MCSE Training Kit: <i>Microsoft SQL Server 2000 Database Design and Implementation</i> (ISBN 0-7356-1248-X)
Exam 70-232: Implementing and Maintaining Highly Available Web Solutions with Microsoft Windows 2000 Server Technologies and Microsoft Application Center 2000	Course 2203: Deploying and Managing Microsoft Application Center 2000 (2 days)	Currently, a corresponding Microsoft Press title is not available
Exam 70-281: Planning, Deploying, and Managing an Enterprise Project Management Solution	Course 2732: Planning, Deploying, and Managing an Enterprise Project Management Solution (5 days)	Currently, a corresponding Microsoft Press title is not available
Exam 70-282: Designing, Deploying, and Managing a Network Solution for a Small- and Medium-Sized Business	Course 2395: Designing, Deploying, and Managing a Network Solution for the Small and Medium-Sized Business	Currently, a corresponding Microsoft Press title is not available
Exam 70-284: Implementing and Managing Microsoft Exchange Server 2003	Course 2400: Implementing and Managing Microsoft Exchange Server 2003 Workshop 2011: Troubleshooting Microsoft Exchange Server 2003	MCSA/MCSE Self-Paced Training Kit: <i>Implementing and Managing Microsoft Exchange Server 2003</i> (Exam 70-284) (ISBN 0-7356-1899-2)
Exam 70-285: Designing a Microsoft Exchange Server 2003 Organization	Course 2008: Designing a Microsoft Exchange Server 2003 Organization (2 days)	Currently, a corresponding Microsoft Press title is not available
Exam 70-297: ⁴ Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure	Course 2282: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure (5 days)*	MCSE Self-Paced Training Kit: <i>Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure</i> (Exam 70-297) (ISBN 0-7356-1970-0)
Exam 70-298: ⁴ Designing Security for a Microsoft Windows Server 2003 Network	Course 2830: Designing Security for Microsoft Networks (3 days)*	MCSE Self-Paced Training Kit: <i>Designing Security for a Microsoft Windows Server 2003 Network</i> (Exam 70-298) (ISBN 0-7356-1969-7)
Exam 70-299: Implementing and Administering Security in a Microsoft Windows Server 2003 Network	Course 2823: Implementing and Administering Security in a Microsoft Windows Server 2003 Network	MCSA/MCSE Self-Paced Training Kit: <i>Implementing and Administering Security in a Microsoft Windows Server 2003 Network</i> (Exam 70-299) (ISBN 0-7356-2061-X)
CompTIA Security+	Course 2810: Fundamentals of Network Security (4 days)	Security+ Certification Training Kit (ISBN 0-7356-1822-4)
Unisys UNO-101: Implementing and Supporting Microsoft Windows Server 2003 Solutions in the Data Center	Currently, corresponding Official Microsoft Learning Products are not available	Currently, a corresponding Microsoft Press title is not available

* Courses 2208, 2274, 2275, 2276, 2277, 2278, 2282, 2285, and 2830 are available in Microsoft E-Learning format. See www.microsoft.com/elearning for more information.