

MCSE 考试指南系列

MCSE:

NT Server 4 in the Enterprise

考试指南 (英文原版)



*MCSE Test Success:
NT Server 4 in the
Enterprise*

微软认证的系
统工程师系列
丛书之九

[美] Lisa Donald 著



电子工业出版社

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MCSE系列丛书说明

MCSE考试

MCSE是Microsoft Certified Systems Engineer（微软认证的系统工程师）的缩写形式。MCSE证书意味着持有者具有较高层次的Windows NT、微软操作系统和相关产品的知识。获得MCSE证书需要有良好的计算机基础知识，还需要对操作系统、网络系统和信息化产品有深刻全面的了解，需要经过认真甚至是艰苦的学习和实践过程。由于该证书取之不易，一旦获得便足以说明证书持有者的技术水平，所以该证书得到了普遍的认可，几乎成为许多国外大公司录用人员、提升职务，甚至是提高薪金的依据，所以MCSE考生人数逐年上升。

要获得MCSE证书，需要通过4项必考科目和两项自选科目考试。具体情况如下：

表0.1 MCSE考试内容与可选科目

必考科目	考试内容	可选择科目
#1	网络操作系统	Windows NT Server 3.51或Windows NT 4.0
#2	企业网系统应用	Windows NT Server (3.51或4.0) in the Enterprise
#3	网络基础知识	Networking Essentials
#4	微软操作系统知识	Windows 3.1、Windows 3.11 for Workgroups Windows 95、Windows NT Workstation
自选科目	考试内容	可选择科目
#5	微软信息服务器产品	SQL Server、SNA Server、Exchange Server或 Internet Information Server等十余个科目
#6	微软公司有关TCP/IP 方面的产品	TCP/IP

注释：表中号码#1、#2等仅为叙述方便，与微软考试科目编号无关

为配合国内读者学习掌握计算机基础知识、操作系统、网络系统及信息化产品，我们推出了两套MCSE考试系列丛书，即：

- MCSE学习指南系列（中文译本），目前推出7种
- MCSE考试指南系列（英文原版），目前推出5种

MCSE学习指南系列

由于MCSE考试的技术水平高，要求考生概念清晰、基础知识牢固、能灵活地运用所学知识，并具有丰富的实践经验。显而易见，MCSE的学习、考试用书也应具备上述特点，介绍MCSE的书籍不但适用于MCSE考生，同时也适用于希望学习、掌握相关知识的普通技术人员。为此我们翻译了本系列丛书，并首先推出其中的7本，具体如下：

表0.2 MCSE系列丛书（学习指南系列）

中文书名	丛书编号	适用的考试科目
MCSE: Windows NT Server 4学习指南	MCSE系列丛书之一	表0.1 #1
MCSE: NT Server 4 in the Enterprise学习指南	MCSE系列丛书之二	表0.1 #2
MCSE: 网络基础学习指南	MCSE系列丛书之三	表0.1 #3
MCSE: Windows NT Workstation学习指南	MCSE系列丛书之四	表0.1 #4
MCSE: Windows 95学习指南	MCSE系列丛书之五	表0.1 #4
MCSE: TCP/IP学习指南	MCSE系列丛书之六	表0.1 #6
MCSE: Microsoft Internet Information Server学习指南	MCSE系列丛书之七	表0.1 #5

MCSE考试指南系列

如果说“学习指南”系列（MCSE系列丛书之一至之七）的特点是，十分注重原理介绍、概念阐述和外沿知识的说明；那么，新的考试指南系列则注意了必须了解的知识、结论，强调了正确的操作方法和实际处理问题的能力，同时介绍了许多MCSE考试的经验和技巧，并附有考试例题。

考虑到考试指南系列书注重结论、致力于支持读者通过MCSE考试等特点，加之MCSE考生英语水平普遍很高（考试本身需用英语完成），我们本次以英文“重印”形式推出了五本“考试指南”系列书，详见表0.3所示。

表0.3 MCSE系列丛书（考试指南系列）

中文书名	丛书编号	适用的考试科目
MCSE: NT Server 4考试指南	MCSE系列丛书之八	表0.1 #1
MCSE: NT Server 4 in the Enterprise考试指南	MCSE系列丛书之九	表0.1 #2
MCSE: Networking Essentials考试指南	MCSE系列丛书之十	表0.1 #3
MCSE: NT Workstation 4考试指南	MCSE系列丛书之十一	表0.1 #4
MCSE: TCP/IP for NT Server 4考试指南	MCSE系列丛书之十二	表0.1 #6

由于采用“重印”方式，即从SYBEX公司购买版权，同时获取该书的文本文件和图形文件，在国内重新排版印刷，这样做的优势在于：

- 降低了图书价格，重印书比原版图书便宜许多。
- 缩短了制作周期，重印书与原版书的“出版时差”不足两个月。
- 提高了制作质量，使用原文件排版，印刷质量明显优于各种影印外文原版书。

综上所述，不难想象，该系列书会再次得到广大读者的欢迎。

最后，向支持和喜爱我们图书的广大读者表示感谢，并肯请读者对书中存在的问题提出批评和指正。

For Terry Whinery and Lars Phillips.

Thanks for teaching me that I could do anything.

Introduction

One of the greatest challenges facing corporate America is finding people who are qualified to manage corporate computer networks. One of the most common operating systems is Windows NT. As you already know, Windows NT is not a trivial operating system. It requires skill and knowledge to manage. Microsoft's certification program demonstrates to employers that someone with Microsoft certification is capable of managing complex NT networks. The most highly coveted certification is MCSE or Microsoft Certified Systems Engineer.

Why become an MCSE? The main benefit is to have much greater earning potential. MCSE carries high industry recognition. Certification can be your key to a new job, or a higher salary—or both.

So what's stopping you? If you're hesitating because you don't know what to expect from the tests or you are worried that you might not pass, then this book is for you.

Your Key to Passing Exam 70-068

This book provides you with the key to passing Exam 70-068, Implementing and Supporting Windows NT Server 4.0 in the Enterprise. Inside, you'll find all the information relevant to this exam, including information on some of the "picky" questions on less frequently used options, and hundreds of practice questions.

Understand the Exam Objectives

This book is structured according to the MCSE NT Server exam objectives. At-a-glance review sections and more than 400 review questions bolster your knowledge of the information relevant to each objective and the exam itself. You'll learn exactly what you need to know without wasting time on tangents not covered by the exam. This book prepares you for the exam in the shortest amount of time possible (although to be ready for the real world, you need to study the subject in greater depth and get a lot of hands-on practice).

Get Ready for the Real Thing

More than 200 sample test questions prepare you for the test-taking experience. These multiple-choice questions resemble actual exam questions—some are even more difficult than what you'll find on the exam. If you can pass the Sample Tests at the end of each unit and the Final Exam at the end of the book, you'll know you're ready.

Is This Book for You?

This book is intended for certification candidates who already have some experience with NT Server. It is especially well-suited for:

- Students using courseware or taking a course to prepare for the exam, and who need to supplement their study material with test-based practice questions.
- Network engineers who have worked with the product, but who still need to fill in some holes.
- Anyone who has studied for the exams—using self-study guides, computer-based training, on-the-job training, or classes—and wants to make sure that he or she is adequately prepared.

Understanding Microsoft Certification

Microsoft offers several levels of certification for anyone who has or is pursuing a career as a network professional working with Microsoft products:

- Microsoft Certified Professional (MCP)
- Microsoft Certified Systems Engineer (MCSE)
- Microsoft Certified Professional + Internet
- Microsoft Certified Systems Engineer + Internet
- Microsoft Certified Trainer (MCT)

The one you choose depends on your area of expertise and your career goals.

Microsoft Certified Professional (MCP)

This certification is for individuals with expertise in one specific area. MCP certification is often a stepping stone to MCSE certification. It allows you some benefits of Microsoft certification after just one exam.

By passing one core exam (meaning an operating system exam), you become an MCP.

Microsoft Certified Systems Engineer (MCSE)

This is the certification for network professionals. By becoming an MCSE you differentiate yourself from an MCP. This certification is similar to a college degree in that it shows that you can make a commitment to complete all of the steps required for certification and that you meet high standards in being able to successfully complete all of the required exams.

To become an MCSE, you must pass a series of six exams:

1. Networking Essentials (waived for Novell CNEs)
2. Implementing and Supporting Microsoft Windows NT Workstation 4.0 (or Windows 95)
3. Implementing and Supporting Microsoft Windows NT Server 4.0

4. Implementing and Supporting Microsoft Windows NT Server 4.0 in the Enterprise
5. Elective
6. Elective

**NOTE**

The following list applies to the NT 4.0 track. Microsoft still supports a track for 3.51, but 4.0 certification is more desirable because it is the current operating system.

Some of the electives include:

- Internetworking with Microsoft TCP/IP on Microsoft Windows NT 4.0
- Implementing and Supporting Microsoft Internet Information Server 4.0
- Implementing and Supporting Microsoft Exchange Server 5.5
- Implementing and Supporting Microsoft SNA Server 4.0
- Implementing and Supporting Microsoft Systems Management Server 1.2
- Implementing a Database Design on Microsoft SQL Server 6.5
- System Administration for Microsoft SQL Server 6.5

Microsoft Certified Trainer (MCT)

As an MCT, you can deliver Microsoft certified courseware through official Microsoft channels.

The MCT certification is more costly, because in addition to passing the exams, it requires that you sit through the official Microsoft courses. You also have to submit an application that must be approved by Microsoft. The number of exams you must pass depends on the number of courses you want to teach.

**TIP**

For the most up-to-date certification information, visit Microsoft's Web site at www.microsoft.com/train_cert.

Understanding Microsoft's Exam Objectives

In order to help you prepare for certification exams, Microsoft specifies a list of exam objectives for each test. This book is based on the objectives.

For this exam, the objectives were designed to measure your ability to design, administer, and troubleshoot NT Server 4.0 when it is part of an enterprise network. In this case, an enterprise network is a network that spans a wide area network and consists of multiple domains.

Scheduling and Taking an Exam

Once you think you are ready to take an exam, call Prometric Testing Centers at (800) 755-EXAM (755-3926). They'll tell you where to find the closest testing

center. Before you call, get out your credit card because each exam costs \$100. (If you've used this book to prepare yourself thoroughly, chances are you'll only have to shell out that \$100 once!)

You can schedule the exams for your convenience. The exams are downloaded from Prometric to the testing center, and you show up at your scheduled time and take the exam on a computer. Once you complete the exam, you will know right away whether you have passed or not. If you pass the exam, you don't need to do anything else—Prometric uploads the test results to Microsoft. If you don't pass, it's another \$100 to schedule the exam again.

At the end of the exam, you will receive a score report. It will list the six areas you were tested on and how you performed. Each unit in this book corresponds to one of the six main objectives. If you do not pass the exam, you will know from the score report where you did poorly, so you can study that particular unit in the Test Success book more carefully.

Test-Taking Hints

Get there early and be prepared This is your last chance to review. Bring your *Test Success* book and review any areas you feel you need to reinforce. Be prepared to show two forms of ID. If you need a quick drink of water or a visit to the restroom, take the time before the exam. Once your exam starts, it won't be paused for these needs.

What you can and can't take in with you These are closed-book exams. You may use only the scratch paper provided by the testing center. Use this paper as much as possible to diagram the questions. Diagramming the questions will help you clarify the answer. You will need to give this paper back to the test administrator at the end of the exam.

Many testing centers are very strict about what you may take into the testing room. Some testing centers won't even allow zipped-up purses. If you feel tempted to take in any outside material, beware! Many testing centers use monitoring devices such as video and audio equipment (so don't swear, even if you are alone in the room!).

Prometric Testing Centers take the test-taking process and the test validation very seriously.

What to expect When you arrive for your exam, you'll be asked to present your ID. You'll also be asked to sign a piece of paper signifying that you understand the testing rules (for example, that you will not cheat on the exam).

Before you start the exam, you'll have an opportunity to take a practice exam. It isn't related to NT and it used to give you a feel for the exam process.

Then you will take the exam. When you are done with the exam, you will receive your score report. You will also have an opportunity to evaluate the

exam and the testing center.

Test approach This really depends on what type of test taker you are. If you know the answer, answer the question and move on. If you aren't sure of the answer, mark your best guess, then "flag" the question. At the end of the exam, you can view all of your answers or only the questions you have marked. Depending on the amount of time remaining, you can review all of the questions again, or you can review only the questions you were unsure of. Double-check all of your answers if time allows, you may have misread a question on the first pass. A related question might provide the answer for a question you have been unsure of.

Answer every question. Unanswered questions are scored as incorrect and will count against you. Make sure you keep an eye on the remaining time so that you can pace yourself accordingly.

One piece of advice: If you have narrowed down the answers to two options, always go with your gut reaction, it is usually correct.

If you do not pass the exam, note everything that you can remember while the exam is still fresh in your mind. This will help you prepare for your next exam. The questions frequently overlap, and you don't want to miss the same questions again.

After You Become Certified

Once you become an MCSE, Microsoft kicks in some goodies, including:

- A one-year subscription to Microsoft Technet, a valuable CD collection that contains Microsoft support information.
- A one-year subscription to the Microsoft Beta Evaluation program, which is a great way to get your hands on new software. Be the first kid on the block to play with new and upcoming software.
- Access to a secured area of the Microsoft Web site that provides technical support and product information. This certification benefit is also available for MCP certification.
- Permission to use the Microsoft Certified Professional logos, which look great on letterhead and business cards. (Each certification has its own logo.)
- An MCP certificate suitable for framing or sending to Mom. (You'll get a certificate for each level of certification you reach.)
- A one-year subscription to *Microsoft Certified Professional Magazine*, which provides information on professional and career development.

Preparing for the MCSE Exams

To prepare for the MCSE certification exams, try to work with the product as much as possible. There are a variety of resources from which you can learn about the products and exams.

Courses

Instructor-led Be very careful when choosing instructor-led courses. The Microsoft training materials do not always have a high correlation with the exam objectives. If your primary goal is to pass the certification exams, this book is an excellent resource because it will fill in the holes left by the Microsoft courseware.

Online Online training is an alternative to instructor-led training. This is a useful option for people who are prohibited geographically from attending instructor-led training.

Self-Study Guides

If you prefer to use a book to help you prepare for the MCSE tests, you'll find a wide variety available. They range from complete study guides (such as the Network Press MCSE Study Guide series, which covers the core MCSE exams and key electives) through test-preparedness books similar to this one.

For more MCSE information, point your browser to the Sybex Web site, where you'll find information about the MCP program, job links, and descriptions of other quality titles in the Network Press line of MCSE-related books. Go to <http://www.sybex.com> and click the MCSE logo.

How to Use This Book

This book is designed to help you prepare for the MCSE exam. It reviews each objective and relevant test-taking information. It gives you the chance to test your knowledge through Study Questions and a Sample Test.

For each unit:

1. Review the exam objectives list at the beginning of the unit. (You may want to check the Microsoft Train_Cert Web site to make sure the objectives haven't changed recently.) There are six main objectives. They include:
 - A. Planning
 - B. Installation and Configuration
 - C. Managing Resources
 - D. Connectivity
 - E. Monitoring and Optimization
 - F. Troubleshooting
2. Depending on your level of expertise, read through or scan the reference material following the objectives list. Broken down according to the objectives, this section helps you brush up on the information you need to know for the exam.
3. Review your knowledge in the Study Questions section. These straightforward questions are designed to test your knowledge of the specified

topic. The answers to the Study Questions are listed in the Appendix at the back of the book.

4. Once you are confident of your knowledge of the area, take the Sample Test. The Sample Test is formatted in content and style to match the real exam. Instead of asking the “cut-and-dried” questions, you are presented with scenario-based questions. These questions will help prepare you for the real exam. Sometimes, half of the battle is trying to figure out exactly what the question is asking you. Set a time limit based on the number of questions. A general rule of thumb is that you should be able to answer 20 questions in 30 minutes. When you’re finished, check your answers with the Appendix in the back of the book. If you answer at least 85% of the questions correctly within the time limit (the first time you take the Sample Test), you’re in good shape. To really prepare, you should note the questions you miss and be able to score 95-100% correctly on subsequent tries.
5. After you successfully complete Units 1–6, you’re ready for the Final Exam in Unit 7. Allow 90 minutes to complete the 55-question test. If you answer 85% of the questions correctly on the first try, you’re well prepared. If not, review the areas you struggled with, and take the test again.
6. Right before you take the test, scan the reference material at the beginning of each unit to refresh your memory.

At this point, you are well on your way to becoming certified!

Good Luck!

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