GLOBAL KNOWLEDGE™ CERTIFICATION PRESS

MCSE
学习指南

MICROSOFT® CERTIFIED SYSTEMS ENGINEER

——Windows XP Professional

(Exam 70-270) （英文版）

本书提供超过250道模拟试题

Mc Graw Hill **Education**

- 两个完整的 MasterExam
- 超过30个 MasterSim 实验
- 指导性的 CertCam AVI

[美] Curt Simmons 著

MCSE

MICROSOFT CERTIFIED SYSTEMS ENGINEER

MCSE 学习指南——
Windows XP Professional
(Exam 70–270)

（英文版）

[美] Curt Simmons 著

版 权 声 明

内容提要

    本书以 MCSE 认证考试为目标，内容涵盖了 MCSE 核心考试 70-270 的所有考试要点，详细介绍了 MCSE 应试者和 Windows XP Professional 高级用户所应该掌握的技能。

    本书在介绍考试要点时针对每个考试目标，使用了大量的插图、表格、试验和测试等，使读者在牢固掌握知识点的同时，轻松地获得丰富的实践经验。

    本书由具有丰富 MCSE 考试经验的专家编写，是参加 MCSE 考试人员的必备考试教材。本书也是一本学习使用和管理 Windows XP Professional 的很好的参考书，还可以作为解决疑难问题的速查手册。

Global Knowledge ™

From Global Knowledge

Global Knowledge supports many styles of learning. We deliver content through the written word, e-Learning, Classroom Learning, and Virtual Classroom Learning. We do this because we know our students need different training approaches to achieve success as technical professionals. This book series offers each reader a valuable tool for Microsoft certification.

Global Knowledge is the world's largest independent IT trainer. This uniquely positions us to offer these books. We have trained hundreds of thousands of students worldwide. Global Knowledge captured those years of expertise in this series. The quality of these books shows our commitment to your lifelong learning success.

For those of you who know Global Knowledge, or those of you who have just found us for the first time, our goal is to be your lifelong training partner. Global Knowledge commits itself daily to providing all learners with the very best training.

Thank you for choosing our training. We look forward to serving your needs again in the future.

Warmest regards,

Duncan Anderson
President and Chief Executive Officer, Global Knowledge

ABOUT THE CONTRIBUTORS

About the Author

Curt Simmons (B.A., M.Ed, MCSE, CTT) is a technology author, trainer, and courseware developer based in Dallas, Texas. Curt specializes in Windows operating systems and networking technologies, and he is the author of more than twenty books focusing on Windows and related networking technologies. He is also the author of *MCSE Internet Security* and *Acceleration Sever 2000 Study Guide*. When he is not writing or teaching, Curt spends his time with his wife and daughters. You can reach Curt at curt_simmons@hotmail.com.

About the Tech Editor

Rory McCaw is an independent certified technical trainer and a successful author of numerous technical books with more than five years of experience in information technology. Rory's interest in writing led him to courseware development, where he has designed courses focused on different Microsoft technologies. Rory holds numerous designations, including MCSE, MCT, and CTT. An accomplished speaker, Rory has developed and delivered presentations for Microsoft at Comdex and currently designs custom courses to meet the needs of his growing list of corporate clients.

For the last three years, Rory has been providing technical instruction to IT professionals and consulting for large organizations on enterprise implementations of IIS and Active Directory. Prior to training, Rory filled the role of Systems Administrator for an Internet start-up after graduating with a Bachelor Degree in Business Administration and a major in Management Information Systems.

ACKNOWLEDGMENTS

Windows XP Professional is the latest iteration of the Windows product, bringing a number of new features to the Windows operating system and to the Windows 2000 networking environment. This book is designed to help you learn all about Windows XP Professional in preparation for Exam 70-270, Installing, Configuring, and Administering Windows XP Professional. The Windows XP Professional MCSE exam tests your XP knowledge when using Windows XP Professional in a Windows 2000/.NET network. Exam 70-270 explores many different installation, configuration, and administrative issues, and this book, along with your real-world experience and hands-on practice, can help you prepare for and pass the exam.

The Windows XP Professional exam counts as a core requirement in the Windows 2000 certification. The core requirements include passing scores for the Windows XP Professional *or* Windows 2000 Professional exam, the Windows 2000 Server exam, the Windows 2000 networking exam, and the Windows 2000 Active Directory exam. In keeping with Microsoft's certification tradition, the Windows XP Professional exam is challenging. You will need knowledge of Windows XP Professional both conceptually and as it functions on a Windows 2000/.NET network, and you will need hands-on experience in order to master the exam. This book is designed to help you be successful. Using the knowledge you gain from this book, the hands-on labs you perform, and the practice questions and exam, you will be ready to tackle Exam 70-270.

In This Book

This book is organized to serve as an in-depth review for the Windows XP Professional exam for both experienced Windows 2000 professionals and newcomers to Microsoft networking technologies. Each chapter covers a major aspect of the exam, with an emphasis on the "why" as well as the "how to" of working with and supporting Windows 2000 as a network administrator or engineer.

On the CD

This book includes a CD-ROM with simulation assessment and training and test preparation software, including more than one hour of instructional video, one hour of online training, and more than 50 test questions that appear only on the CD. For more information on the CD-ROM, please see Appendix A.

In Every Chapter

We've created a set of chapter components that call your attention to important items, reinforce important points, and provide helpful exam-taking hints. Take a look at what you'll find in every chapter:

- Every chapter begins with the **Certification Objectives**—what you need to know in order to pass the section of the exam dealing with the chapter topic. The Objective headings identify the objectives within the chapter, so you'll always know an objective when you see it!

- **Exam Watch** notes call attention to information about, and potential pitfalls in, the exam. These helpful hints are written by authors who have taken the exams and received their certification—who better to tell you what to worry about? They know what you're about to go through!

exam
Watch

EXERCISE

- **Practice Exercises** are interspersed throughout the chapters. These are step-by-step exercises that allow you to get the hands-on experience you need in order to pass the exam. They help you master skills that are likely to be an area of focus on the exam. Don't just read through the exercises; they are hands-on practice that you should be comfortable completing. Learning by doing is an effective way to increase your competency with a product. The practical exercises will be very helpful for any simulation exercises you may encounter on the MCSE Migrating from Windows NT 4.0 to Windows 2000 Exam.

on the
Job

- **On the Job** notes describe the issues that come up most often in real-world settings. They provide a valuable perspective on certification- and product-related topics. They point out common mistakes and address questions that have arisen from on the job discussions and experience.

■ **From the Classroom** sidebars describe the issues that come up most often in the training classroom setting. These sidebars highlight some of the most common and confusing problems that students encounter when taking a live Windows 2000 training course. You can get a leg up on those difficult-to-understand subjects by focusing extra attention on these sidebars.

■ **Scenario and Solution** sections lay out potential problems and solutions in a quick-to-read format:

SCENARIO & SOLUTION

Does Windows XP Professional provide image-based installations?	Yes. Windows XP Professional supports both Remote Installation Service and System Preparation.
Can Remote Desktop be used with ICF?	Yes. You can use Remote Desktop with the Internet Connection Firewall, but you must configure ICF to allow Remote Desktop traffic.

■ The **Certification Summary** is a succinct review of the chapter and a restatement of salient points regarding the exam.

✓ ■ The **Two-Minute Drill** at the end of every chapter is a checklist of the main points of the chapter. It can be used for last-minute review.

Q&A ■ The **Self Test** offers questions similar to those found on the certification exams. The answers to these questions, as well as explanations of the answers, can be found at the end of each chapter. By taking the Self Test after completing each chapter, you'll reinforce what you've learned from that chapter while becoming familiar with the structure of the exam questions.

■ The **Lab Question** at the end of the Self Test section offers a unique and challenging question that requires the reader to understand multiple chapter concepts to answer correctly. These questions are more complex and more comprehensive than the other questions, as they test your ability to take all the knowledge you have gained from reading the chapter and apply it to complicated, real-world situations. These questions are aimed to be more difficult than what you will find on the exam. If you can answer these questions, you have proven that you know the subject!

The Global Knowledge Web Site

Check out the Web site. Global Knowledge invites you to become an active member of the Access Global Web site. This site is an online mall and an information repository that you'll find invaluable. You can access many types of products to assist you in your preparation for the exam, and you'll be able to participate in forums, online discussions, and threaded discussions. No other book brings you unlimited access to such a resource. You'll find more information about this site in Appendix B.

Some Pointers

Once you've finished reading this book, set aside some time to do a thorough review. You might want to return to the book several times and make use of all the methods it offers for reviewing the material:

1. *Reread all the Two-Minute Drills,* or have someone quiz you. You also can use the drills as a way to do a quick cram before the exam. You might want to make some flash cards out of 3 × 5 index cards that have the Two-Minute Drill material on them.

2. *Reread all the Exam Watch notes.* Remember that these notes are written by authors who have taken the exam and passed. They know what you should expect—and what you should be on the lookout for.

3. *Review all the S&S sections* for quick problem solving examples.

4. *Retake the Self Tests.* Taking the tests right after you've read the chapter is a good idea, because the questions help reinforce what you've just learned. However, it's an even better idea to go back later and do all the questions in the book in one sitting. Pretend that you're taking the live exam. (When you go through the questions the first time, you should mark your answers on a separate piece of paper. That way, you can run through the questions as many times as you need to until you feel comfortable with the material.)

5. *Complete the Exercises.* Did you do the exercises when you read through each chapter? If not, do them! These exercises are designed to cover exam topics, and there's no better way to get to know this material than by practicing. Be sure you understand why you are performing each step in each exercise. If there is something you are not clear on, reread that section in the chapter.

INTRODUCTION

Welcome to the Windows XP Professional Study Guide. This book is all you need to master the concepts that you are likely to see on Exam 70-270. This book is written so you can study each individual exam objective and then use the knowledge you gain in order to tackle those difficult and often tricky Microsoft exam questions. The Windows XP Professional exam tests your knowledge of installing, configuring, and administering Windows XP on a Windows 2000/.NET network. This book's exploration of the functionality and use of Windows XP will help you meet the exam's objectives and provide you with the knowledge that the exam expects you to have.

The Windows XP Professional exam is a core exam option for Windows 2000 MCSE certification. This means that you have the option to take the Windows XP Professional exam or the Windows 2000 Professional exam as one of your core exams. Since Windows XP is the newest Microsoft operating system exam in this track, your choice to take Exam 70-270 will show people in the industry that you have cutting edge skills with the latest Microsoft technologies. Some of you are probably new to the certification game—in fact, this may be your first exam, or you may be updating your certification to Windows 2000. Regardless of your status, this book is your best source of information, along with real-world experience and hands-on practice, for passing Exam 70-270.

MCSE Certification

This book is designed to help you pass the MCSE Windows XP Professional exam (Exam 70-270). As previously mentioned, the Windows XP Professional exam serves as a possible core requirement for MCSE certification. This means that you have the option of taking the Windows XP Professional exam *or* the Windows 2000 Professional exam. Either exam can count as the workstation core requirement.

In addition to the Windows XP Professional or Windows 2000 Professional exam, you must also pass three additional core requirement exams, one design exam, and two elective exams. The following table outlines the requirements and options for you.

exam
Watch   *The following table lists the requirements at the time of this writing. Requirements and exam availability changes from time to time, so you should get in the habit of checking http://www.microsoft.com/traincert periodically so that you are aware of any program changes that might occur.*

Windows 2000 Certification Track

Core Exams
Exam 70-270: Installing, Configuring, and Administering Microsoft Windows XP Professional, *or* Exam 70-210: Installing, Configuring, and Administering Microsoft Windows 2000 Professional
Exam 70-215: Installing, Configuring and Administering Microsoft® Windows® 2000 Server
Exam 70-216: Implementing and Administering a Microsoft® Windows® 2000 Network Infrastructure
Exam 70-217: Implementing and Administering a Microsoft® Windows® 2000 Directory Services Infrastructure
PLUS—All Candidates—One of the Following Core Exams Required:
Exam 70-219: Designing a Microsoft® Windows® 2000 Directory Services Infrastructure
Exam 70-220: Designing Security for a Microsoft® Windows® 2000 Network
Exam 70-221: Designing a Microsoft® Windows® 2000 Network Infrastructure
PLUS—All Candidates—Two Elective Exams Required:
Any current MCSE electives. Electives scheduled for retirement will not be considered current. Selected third-party certifications that focus on interoperability will be accepted as an alternative to one elective exam. At the time of this writing, the following exams are available as elective exams:
Exam 70-085: Implementing and Supporting Microsoft SNA Server 4.0
Exam 70-086: Implementing and Supporting Microsoft Systems Management Server 2.0
Exam 70-019: Designing and Implementing Data Warehouses with Microsoft SQL Server 7.0
Exam 70-029: Designing and Implementing Databases with Microsoft SQL Server 7.0 *or* Exam 70-229: Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition
Exam 70-028: Administering Microsoft SQL Server 7.0 *or* Exam 70-228: Installing, Configuring, and Administering Microsoft SQL Server 2000 Enterprise Edition
Exam 70-056: Implementing and Supporting Web Sites Using Microsoft Site Server 3.0
Exam 70-081: Implementing and Supporting Microsoft Exchange Server 5.5 *or* Exam 70-224: Installing, Configuring, and Administering Microsoft Exchange 2000 Server

PLUS—All Candidates—*Two Elective Exams Required:* (cont.)
Exam 70-088: Implementing and Supporting Microsoft Proxy Server 2.0 or Installing, Configuring, and Administering Microsoft Internet Security and Acceleration (ISA) Server 2000, Enterprise Edition
Exam 70-080: Implementing and Supporting Microsoft Internet Explorer 5.0 by Using the Microsoft Internet Explorer Administration Kit
Exam 70-218: Managing a Microsoft Windows 2000 Network Environment
Exam 70-219: Designing a Microsoft Windows 2000 Directory Services Infrastructure
Exam 70-220: Designing Security for a Microsoft Windows 2000 Network
Exam 70-221: Designing a Microsoft Windows 2000 Network Infrastructure
Exam 70-222: Migrating from Microsoft Windows NT 4.0 to Microsoft Windows 2000
Exam 70-223: Installing, Configuring, and Administering Microsoft Clustering Services by Using Microsoft Windows 2000 Advanced Server
Exam 70-226: Designing Highly Available Web Solutions with Microsoft Windows 2000 Server Technologies
Exam 70-230: Designing and Implementing Solutions with Microsoft BizTalk Server 2000 Enterprise Edition
Exam 70-232: Implementing and Maintaining Highly Available Web Solutions with Microsoft Windows 2000 Server Technologies and Microsoft Application Center 2000
Exam 70-234: Designing and Implementing Solutions with Microsoft Commerce Server 2000
Exam 70-244: Supporting and Maintaining a Microsoft Windows NT Server 4.0 Network

How to Take a Microsoft Certification Exam

Microsoft certification exams are complex and difficult, in a number of ways. The exams expect you to have solid conceptual knowledge of the exam objectives, yet you must also have hands-on experience in order to master the exam questions. Put these two elements with a time limit and a lot of reading, and there is no doubt that even the most seasoned test takers—myself included!—find the Microsoft exams nerve-racking.

Yet, despite the difficultly, thousands of people have mastered these exams—and you can as well. The difficulty in the Windows 2000/.NET certification track is that exam objectives overlap. Sure, in the Windows XP Professional exam, you are primarily focused on the local operating system, but you also have to know a few things about

Windows 2000 Server, the Active Directory, and Group Policy. In other words, your real-world IT work will not function in discrete segments, but rather your knowledge must be somewhat global. The exams take this approach too. Yes, this book will help you prepare for Exam 70-270, but I'm expecting that you bring some experience and prior knowledge to the table. If you are just getting started in the IT business, you should consider studying some general Windows 2000 networking books before tackling certification—this will make your likelihood of success much higher.

The Windows XP Professional exam expects you to be a Microsoft product expert. This means that you have to know the ins and outs of Windows XP, but you must also know how to use and configure Windows XP on a Windows 2000/.NET network. In order to test your knowledge, you are likely to see the following kinds of questions:

- Conceptual questions: Conceptual questions are designed to test your knowledge. You'll be asked a question and you must provide the technically correct answer.

- Interface/Diagram questions: In order to test your real-world knowledge of Windows XP Professional, you may see questions that give you portions of the XP interface or questions that give you a network diagram. You must then examine the interface and correctly answer the question.

- Scenarios: Most all questions on the exam are scenario based. This means you will be put into a situation where an problem is at hand, and then you will be asked to solve the problem. Even when the question is a basic conceptual question, you'll find that the exam often gives a long (and often unnecessarily detailed) scenario concerning that question.

Test Structure

Like all good test takers, you want to know what the test will be like, especially if you have never taken a Microsoft exam before. If you have taken a Microsoft exam, you can expect the same kinds of questions and formats as you have seen in the past.

Question Types

Let's first consider the question types that you are likely to see on the exam. The concepts in the following sections apply to the Windows XP Professional exam, but you will also see these same formats on other exams as well.

Multiple Choice

Almost all questions on the exam are structured in a multiple choice format. This means that you will see a question and several possible answers. You must click the correct answer in order to get the question right. Some questions require two or more answers, while others say "Choose all that apply." However, the great majority of the exam questions give you a question for which there is one correct answer. For example:

Susan is a user on your network. Susan's laptop computer was recently upgraded to Windows XP Professional. Susan travels frequently with her laptop, giving sales presentations at various client sites. Susan needs to make certain that she is able to use Windows XP's hibernation feature. However, Susan reports that hibernation is unavailable. You check Susan's computer and discover that the Advanced Power Configuration Interface (ACPI) is not supported in the current computer's BIOS. You install a new BIOS on the computer. What must you do now?

   A. Enable Hibernation.
   B. Reinstall Windows XP Professional.
   C. Run the File and Settings Transfer Wizard.
   D. Enable the L2TP protocol.

As you can see, you are presented with a scenario problem and asked to choose the correct answer. By the way, the correct answer here is B. When you upgrade a computer's BIOS, you must reinstall Windows XP Professional.

Graphical Questions

Some questions will contain a screen capture of the interface or a network diagram. When you read the question on the screen, you will need to click the Exhibit button to see the picture. You must then inspect the picture and make a decision about the

correct answer. The question is still a multiple choice question, but the exhibit simply helps you answer the question correctly. For example:

A user in your company travels frequently with his laptop computer. When the user is away from the office, he primarily uses battery power. During meetings, the user often accesses the laptop, and then the laptop may be idle for an hour or more. You need to configure the laptop to conserve as much power as possible while still being readily available to the user. Consider the current Power Options configuration:
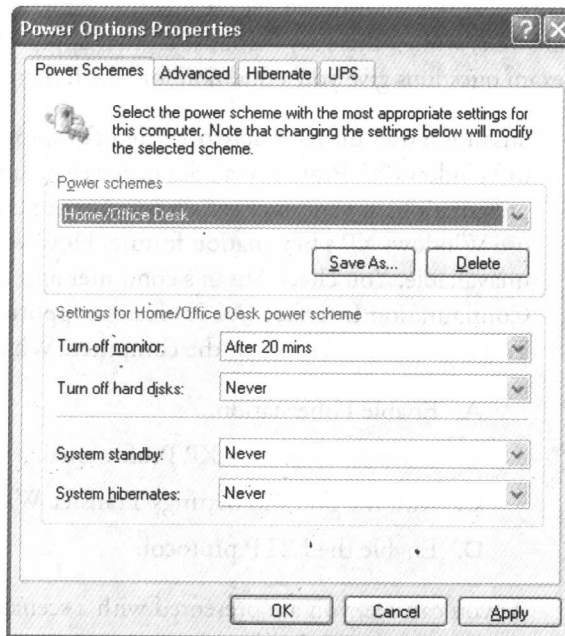
What do you need to change in order to conserve power while keeping the laptop readily available?

- A. Turn the monitor off after 10 minutes of inactivity.
- B. Turn on System Stand by after 10 minutes of inactivity.
- C. Configure hibernation to become active after 10 minutes of inactivity.
- D. Turn off the hard disk after 10 minutes of inactivity.