专业认证考试的首推从书

MCSE MEYERS 以证考试丛书

MGSE Windows

Professional



131

附

(美) BRIAN CULP 著

MCSE, MCT, AND A+





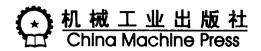
MIKE MEYERS
MCSE 认证考试丛书

MCSE Windows 2000 专业版

(考试号: 70-210)(英文版)

MCSE Windows 2000 Professional (EXAM 70-210)

(美) BRIAN CULP 著



Brian Culp

MCSE Windows 2000 Professional (EXAM 70-210)

ISBN:0-07-219367-0

Copyright © 2002 by the McGraw-Hill Companies, Inc.

Original language published by The McGraw-Hill Companies, Inc. All Rights reserved. No part of this publication may be reproduced or distributed in any means, or stored in a database or retrieval system, without the prior written permission of the publisher.

Authorized English language reprint edition jointly published by McGraw-Hill Education (Asia) Co. and China Machine Press. This edition is authorized for sale in the People's Republic of China only, excluding Hong Kong, Macao SAR and Taiwan. Unauthorized export of this edition is a violation of the Copyright Act. Violation of this Law is subject to Civil and Criminal Penalties.

本书英文影印版由机械工业出版社和美国麦格劳-希尔教育出版(亚洲)公司合作出版。此版本仅限在中华人民共和国境内(不包括香港、澳门特别行政区及台湾)销售。未经许可之出口,视为违反著作权法,将受法律之制裁。

未经出版者预先书面许可,不得以任何方式复制或抄袭本书的任何部分。

本书封面贴有 McGraw-Hill 公司激光防伪标签,无标签者不得销售。

北京市版权局著作权合同登记号:图字:01-2002-0097

图书在版编目(CIP)数据

MCSE WINDOWS 2000 专业版:考试号:70-210/(美)卡尔普(Culp, B.)著. 一北京:机械工业出版社,2002

(MIKE MEYERS MCSE 认证考试从书)

ISBN 7-111-10061-1

[1. M···]]. 卡·· □. 窗口软件、Windows 2000 - 工程技术认员 - 资格考核 - 自学参考资料 - 英文 [V. TP316.7

中国版本图书馆 CIP 数据核字(2002)第 015204 号

机械工业出版社(北京市百万庄大街22号 邮政编码100037)

北京机工印刷厂印刷・新华书店北京发行所发行

2002年3月第1版第1次印刷

1000mm×1400mm·B5·12 印张·464 千字

0 001--3 000 册

定价:48.00 元(附光盘)

凡购本书,如有缺页、倒页、脱页,由本社发行部调换本社购书热线电话(010)68993821、68326677-2527

About the Author

Brian Culp cut his teeth in the IT world in a small networking outfit called IBM before gaining his MCSE certification and stepping into the classroom. He is currently President and CEO of LANscape, Inc., and no, they won't trim your shrubbery or build you a berm. LANscape provides training services to companies big and small, and also provides network administration.

About the Technical Editor

Glen E. Clarke is a Microsoft Certified Systems Engineer (MCSE), Microsoft Certified Solution Developer (MCSD), and Microsoft Certified Trainer (MCT). Glen also holds Prosoft's Certified Internet Webmaster—Certified Instructor (CIW CI) certification and is an A+ certified technician. Glen currently works as a technical trainer for PBSC, one of Canada's largest technical training centers, where he spends most of his time delivering the MCSE and MCSD curriculum. When he's not working, Glen loves to spend quality time with his wife, Tanya, and their two children, Sara and Brendon. He is an active member of the martial arts community, where he currently holds his first-degree black belt in Tae Kwon Do. You can contact Glen at gleneclarke@hotmail.com.

Dedication

For my grandfather Roy, who fixed Philco radios—not for people who owned them, but for the Philco company engineers—and never charged a dime. He would have done something like this, only a lot better.

And for Griffin, my three-year-old son, who thinks I should be writing stories about snow monsters and swords.

Acknowledgments

This project would not have reached completion without the support and hard work of many, many people, I would like to specifically thank Nancy Maragioglio at McGraw-Hill for her encouragement, patience, and most of all old-fashioned, rollup-the-sleeves hard work. I would like to thank technical editor Glen Clarke for his efforts hiding blemishes in my first drafts, and for his many suggestions that improved the book. Any technical errors that remain are mine and mine alone. (Except for any really big ones. Those are still Glen's fault.) I also need to thank Lisa Theobald for her weekends and evenings making the text readable and for accommodating my last-minute changes. I would also like specifically to mention the efforts of John Nicholson at Johnson County Community College, who helped get me started on the path to authoring this book, and David Fugate for his guidance and support. Thanks are also in order to the IBM people in Seattle who took a green IT guy under their wing, specifically Rich, Michael, and Pat. I also want to thank my family for their support. My brother Matt is essential if you need to remember the names of movie characters. And thanks to every Starbucks in Kansas City for supplying me with enough caffeine during this project to kill most livestock.



Contents at a Glance

	Check-Inxviii
	Introductionxxiii
1	Installing Windows 2000 Professional
2	Implementing and Conducting Administration of Resources
3	Managing Disk Drives and Volumes
4	Configuring and Customizing the End User Experience
5	Implementing, Managing, and Troubleshooting Hardware Devices and Drivers
6	Monitoring and Optimizing System Performance and Reliability
7	Implementing, Managing, and Troubleshooting Protocols and Services
8	Implementing, Monitoring, and Troubleshooting Security
	Appendix A: About the CD-ROM
	Appendix B: Career Flight Path
	Index



Contents

	Check-In	xviii
	Introduction	xxiii
1	Installing Windows 2000 Professional	1
	Objective 1.01	
	Perform an Attended Installation of	
	Windows 2000 Professional	2
	What's New in Windows 2000	4
	Preparing to Install	5
	Starting an Attended Installation	8
	Objective 1.02	
	Perform an Unattended Installation of	
	Windows 2000 Professional	
	Creating an Answer File with Setup Manager	16
	Disk Duplication Using the SysPrep Tool	20
	Objective 1.03	
	Upgrade From a Previous Version	23
	Configuring Dual Boot	23
	Upgrading to Windows 2000 Professional	24
	Objective 1.04	
	Use Windows 2000 Server Remote Installation	
	Service to Automate Installations	25
	Objective 1.05	
	Deploy Service Packs	29
	IINIECTIVE I UK	
	Troubleshoot Failed Installations	31
	CHECKPOINT DOT time topens V. Identologic	33
	Review Questions	34
	Povious Aneswore	

of Resources	
Objective 2.01	
Manage and Troubleshoot Access to	
Shared Folders	
Create and Remove Shared Folders	
Connecting to Shared Resources	
Control Access to Shared Folders Using Permissions	
Manage and Troubleshoot Web Server Resources	
Objective 2.02	
Monitor, Manage, and Troubleshoot Access	
to Files and Folders	
Control Access to Files and Folders Using NTFS Permissions	·
Optimize Access to Files and Folders	•••••
NTFS Permissions Inheritance	
Copying and Moving Considerations	
Special Access Permissions	
Ownership	
Objective 2.03	
Connect to Local and Network Print Devices	•••••
Connecting to Local and Network Printers	•••••
Port Properties	
Managing Printers	
Print Pooling and Priorities	
Printer Security	
Internet Printing	
CHECKPOINT	
Review Questions	
Review Answers	
M . D. I.D	
Managing Disk Drives and Volumes	••••••
Objective 3.01	
Implement, Manage, and Troubleshoot	

DVD and CD-ROM Devices	93
Removable Media Devices	95
File System Considerations	95
FAT16	96
FAT32	97
NTFS	97
Converting the File System	98
The Microsoft Management Console	99
Configuring Disk Storage	102
Monitor and Configure Hard Disk Drives	103
Basic Storage	103
Dynamic Storage	104
Upgrading from Basic Storage to Dynamic Storage	108
Managing Storage	110
File and Folder Compression	119
Using the Windows 2000 Backup Utility	121
CHECKPOINT	122
Review Questions	123
Review Answers	125
Configuring and Customizing the End User Experience	127
Objective 4.01	
Configure and Manage User Profiles	128
What Is a Profile?	
Local Profiles	
Roaming Profiles	
Mandatory Profiles	
Objective 4.02	
Configure Support for Multiple Locations	136
Objective 4.03	130
Manage Applications by Using Windows	120
Installer Packages	
Installation Options: Publishing vs. Assigning	
Publishing Applications Assigning Applications	
ASSIGNING ADORCADODS	140

Configure and Troubleshoot Desktop Setting	_
Customizing the Taskbar and Start Menu	
The Control Panel	
The Registry	
Group Policies	
Local Policies	••••••
Objective 4.05	
Configure and Troubleshoot Fax Support	
Objective 4.06	
Configure and Troubleshoot Accessibility	
Services Accessibility Options	
Other Accessibility Utilities	
CHECKPOINT	
Review Questions	
Review Answers	
Implementing, Managing, and Troubleshooting Hardware Devices and Drivers	•
	•
Hardware Devices and Drivers Objective 5.01	•
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot	•••••••••••••••••••••••••••••••••••••••
Hardware Devices and Drivers Objective 5.01	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode Hibernation Mode	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode Hibernation Mode Uninterruptible Power Supply (UPS)	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode Hibernation Mode	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode Hibernation Mode Uninterruptible Power Supply (UPS)	
Hardware Devices and Drivers Objective 5.01 Implement, Manage, and Troubleshoot Display Devices Configuring the Display Supporting Multiple Monitors Troubleshooting the Display Objective 5.02 Implement, Manage, and Troubleshoot Mobile Computer Hardware Standby Mode Hibernation Mode Uninterruptible Power Supply (UPS) Configuring Card Services	

USB Devices	181
Imaging Devices	183
Modems	184
Wireless Devices	186
Multimedia Devices	187
Objective 5.04	
Update Drivers	188
The Upgrade Device Driver Wizard	189
Driver Signing	191
Objective 5.05	
Monitor and Configure Multiple	
Processing Units	192
Performance Console	193
Task Manager	194
Other Tools	194
Counter Logs	195
Trace Logs	
Alerts	196
Objective 5.06	
Install, Configure, and Troubleshoot	
Network Adapters	197
Troubleshooting Network Cards	200
CHECKPOINT	201
Review Questions	202
Review Answers	205
Manitaring and Ontimizing System	
Monitoring and Optimizing System	
Performance and Reliability	207
Objective 6.01	
Configure, Manage, and Troubleshoot	
the Task Scheduler	208
Objective 6.02	
Manage and Troubleshoot the Use of	
Offline Files	214
Setting Up Offline Files	
Automatic Caching	
Manual Caching	218

Objective 6.03	
Optimize and Troubleshoot Performance of the	
Window 2000 Professional Desktop	
System Monitor	
Memory Performance	
Processor Utilization	
Disk Performance	
Network Performance	
Application Performance	
Objective 6.04	
Manage Hardware Profiles	
Objective 6.05	
Recover System State Data and User Data	
Windows Backup	
Creating Windows 2000 Professional Setup Boot Disks	
Creating the ERD	
Backing Up Data	
Performing a Restore	
Safe Mode	
Recovery Console	
CHECKPOINT	•••••
Review Questions	
Review Answers	
Implementing, Managing, and Troubleshooting	
Protocols and Services	•••••
Objective 7.01	
Configure and Troubleshoot the	
TCP/IP Protocol	
TCP/IP Fundamentals	
The IP Address	•••••
The Subnet Mask	
The Default Gateway	•••••
Configuring TCP/IP	
Name Resolution	

Domain Name System Servers	259
WINS	260
Other Protocols	260
NWLink	261
NetBEUI	261
Binding Order	262
Troubleshooting TCP/IP	264
IPCONFIG.EXE	264
PING.EXE	265
TRACERT.EXE	266
Other Troubleshooting Notes	267
Objective 7.02	
Connect to Computers Using Dial-Up	
Networking	268
Internet Connection Sharing	272
Virtual Private Networks	274
Authentication Protocols	
Troubleshooting Dial-Up Networking	278
Objective 7.03	
Connect to Shared Resources on a	
Microsoft Network	278
Web Sharing with Peer Web Services	
Browsing	
CHECKPOINT	
Review Questions	
Review Answers	
Neview Allawers	200
Implementing, Monitoring, and	
Troubleshooting Security	289
Objective 8.01	
Implement, Configure, Manage, and	_
Troubleshoot Local User Accounts	
Creating and Managing Local Users and Groups	
Managing Built-In Accounts	
Creating a New User Account	293

Creating and Managing Domain Accounts	295
Renaming an Account	295
Deleting an Account	296
Disabling a User Account	296
Changing a Password	297
Using Logon Scripts	298
Storing Files in the Home Folder	298
Using Groups to Administer Accounts	298
Special Groups	300
Creating a Group	301
Deleting and Renaming Groups	302
Objective 8.02	
Implement, Configure, Manage, and	
Troubleshoot Local User Authentication	302
Account Settings	302
Local User Accounts vs. Domain User Accounts	
Objective 8.03	
Implement, Configure, Manage, and	
Troubleshoot a Security Configuration	305
Security Templates	
Command-Line Security Configuration	
Objective 8.04	
Encrypt Data on a Hard Disk Using	
Encryption File System	311
Moving and Copying	
The Recovery Agent	
Objective 8.05	
Implement, Configure, Manage, and	215
Troubleshoot Local Security Policy	
Account Policies	
Local Security Policies	
User Rights	
Auditing	
IP Security (IPSec) Policies	
CHECKPOINT	
Review Questions	
Parious Anguero	220

Appendix A: About the CD-ROM	331
Mike Meyers' Certification Passport CD-ROM Instructions	331
System Requirements	331
Technical Support	332
Appendix B: Career Flight Path	333
Core Exams	333
Core Elective Exam	333
Elective Exams	334
.NET and Beyond	334
Index	337



ITINERARY	So him not tell user a stratism souled strateriosmos
Objective 1.01	Perform an Attended Installation of Windows 2000 Professional
Objective 1.02	Perform an Unattended Installation of Windows 2000 Professional
Objective 1.03	Upgrade from a Previous Version
Objective 1.04	Use Windows 2000 Server Remote Installation Service to Automate Installations
Objective 1.05	Deploy Service Packs
○ Objective 1.06	Troubleshoot Failed Installations

	NEWBIE	SOME EXPERIENCE	EXPERT
ETA	4 hours	2 hours	1 hour