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MCSE认证考试丛书

MCSE Windows®

2000网络结构管理部分

考试号：70-216

英文版

MCSE Windows® 2000

Network Infrastructure Administration

EXAM 70-216

附赠

(美) RORY MCCAW 著

MCSE, MCT, CTT

机械工业出版社 China Machine Press

McGraw Hill Education

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Rory McCaw
MCSE Windows 2000 Network Infrastructure Administration (EXAM 70-216)
ISBN:0-07-219568-1
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图书在版编目(CIP)数据

MCSE Windows 2000 网络结构管理部分:考试号:70-216/(美)麦克考尔(Mccaw,R,)著. —北京:机械工业出版社,2002.3
(Mike Meyers MCSE 认证考试丛书)
ISBN 7-111-10063-8

Ⅰ.M… Ⅱ.麦… Ⅲ.计算机网络-系统结构-管理-工程技术人员-资格考核-自学参考资料-英文 Ⅳ.TP393.07

中国版本图书馆 CIP 数据核字(2002)第 015203 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·B5·12.125 印张·472 千字
0 001—3 000 册
定价:49.00 元(附光盘)

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About the Author

Rory McCaw is an independent certified technical trainer with more than five years of experience in information technology and the author of numerous technical books. 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 the MCSE, MCT, and CTT. An experienced speaker, Rory developed and delivered presentations for Microsoft at Comdex and 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 startup after graduating from University with a B.A. in Business Administration and a major in Management Information Systems.

Rory's consistently excellent student evaluations speak for themselves about the quality of training that he provides.

"No improvement required! Excellent presentation intermixed with candid moments. Set atmosphere comfortably!"
—Chris Andrews, Oracle Instructor

"The instructor was very good and I would change nothing about his technique. His ability to teach and get his point across is excellent. I would recommend him to all my co-workers."
—Chuck Johnson, Silicon Graphics

"Rory was excellent, very knowledgeable, and a great teacher!"
—Patrick Cheung, Ministry of the Environment

"I just wanted to say that I thoroughly enjoyed myself at the course last week, largely due to the quality of the instruction. I must tell you that Rory McCaw is one of the best instructors I have EVER had the pleasure to learn from. I tried to emphasize that on the course-end questionnaire but I don't think that it was enough. Quality of instruction is tantamount to success in our field, and to find someone who can not only deliver the knowledge but to do it with flair, wisdom, and without arrogance is something I've not seen for a long time."
—Michael Jeggo, EDS Innovations

About the Tech Editor

Mike Lagase is currently a support engineer working at Microsoft supporting their web server products and related technologies. He has been in the IT business for approximately ten years and has strong experience in the network infrastructure and implementation of large heterogeneous networks. Prior to Microsoft, he had implemented a worldwide messaging system that was converted over from a cc:Mail environment to a complete Microsoft Exchange solution using VPN, RAS, and ISDN on Windows NT technology. His passion for technology stems from his desire to understand the intricacies of how everything is put together and how to overcome almost any obstacle. Mike has a family of three, including his wife Jackie and their two daughters Olivia and Sayer.

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Dedication

I would like to dedicate this book to all of the families that have lost both friends and family members in the World Trade Center and Pentagon tragedies on September 11, 2001. Family and friends are there in good times and bad. This tragic event caused people all around the world to remember just how fragile human life is. My heart goes out to all the people affected by this horrific event.

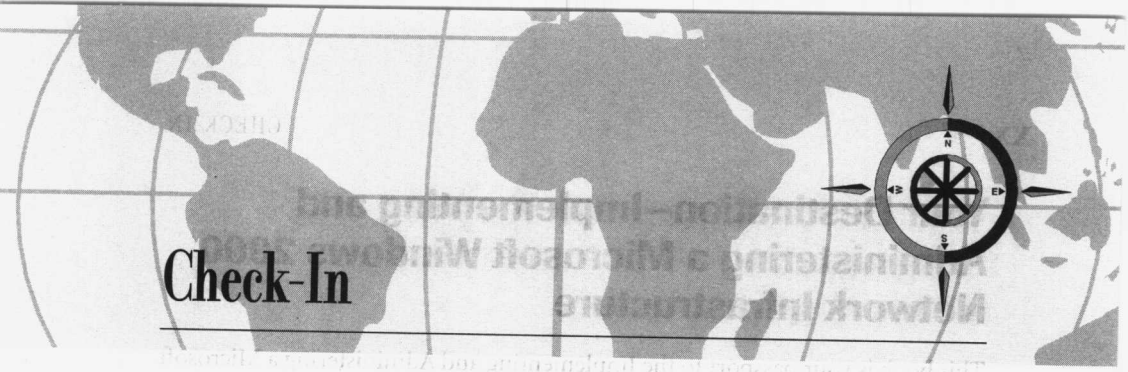
God bless freedom, democracy, and the sanctity of human life around the world!

Acknowledgments

I would like to thank a number of people responsible for the success of this project. First, thanks must go to Nancy Maragioglio, Senior Acquisitions Editor at Osborne who is an absolute joy to work with. Your friendly and sincere way and funny jokes in those crunch times and late nights spent writing to meet the tight deadlines are very much appreciated. I would also like to thank all of the other folks at McGraw-Hill/Osborne, who are often behind the scenes, from my perspective, like Gareth Hanock and Jessica Wilson and all the others whose contribution make this book possible. A special thanks also to Mike Meyers, for without Mike's insight and success, this series may not have materialized. I hope the fish are biting for you these "nights" Mike!

I would also like to thank my wife Dina who is wonderful and so very supportive of my interest in writing—even when it means "our" weekends and nights are consumed. The writing of this book really helped to show Dina's supportive nature as our honeymoon fell in the middle of the production schedule, making the meeting of deadlines that much more difficult. Dina, you mean the world to me and every book that I write should really list you as a co-author because it is your support and loving glances that get me back on track when writers block sets in.

Lastly, I would like to thank the many people I call students, with whom I have had the opportunity to share my knowledge of Microsoft products. Often it is your thought provoking questions and interest in learning that provide me with inspiration.



Check-In

May I See Your Passport?

What do you mean you don't have a passport? Why, it's sitting right in your hands, even as you read! This book is your passport to a very special place. You're about to begin a journey, my friend, a journey towards that magical place called CERTIFICATION! You don't need a ticket, you don't need a suitcase—just snuggle up and read this passport—it's all you need to get there. Are you ready? Let's Go!

Your Travel Agent—Mike Meyers

Hello! My name's Mike Meyers. I've written a number of popular certification books and I'm the President of Total Seminars, LLC. On any given day, you'll find me replacing a hard drive, setting up a Web site, or writing code. I love every aspect of this book you hold in your hands. It's part of a powerful new book series called the *Mike Meyers' Certification Passports*. Every book in this series combines easy readability with a condensed format. In other words, the kind of book I always wanted when I went for my certifications. Putting this much information in an accessible format is an enormous challenge, but I think we have achieved our goal and I am confident you'll agree.

I designed this series to do one thing and only one thing—to get you the only information you need to achieve your certification. You won't find any fluff in here—the author Rory McCaw packed every page with nothing but the real nitty gritty of the certification exam. Every page is packed with 100% pure concentrate of certification knowledge! But we didn't forget to make the book readable. I hope you enjoy the casual, friendly style—I want you to feel as though the author is speaking to you, discussing the certification, not just spewing facts at you.

My personal e-mail address is mikem@totalsem.com and Rory McCaw's personal e-mail address is rorym@istar.ca. Please feel free to contact either of us directly if you have any questions, complaints, or compliments.

Your Destination—Implementing and Administering a Microsoft Windows 2000 Network Infrastructure

This book is your passport to the Implementing and Administering a Microsoft Windows 2000 Network Infrastructure exam (70-216), which is one of the four core Windows 2000 MCSE exams required in your pursuit of the coveted Microsoft Windows 2000 MCSE certification. The Network Infrastructure exam tests your skills and knowledge of some of the most complex network infrastructure issues involved in the implementation and administration of a Windows 2000 Network. You'll learn about networking services like DHCP, DNS, and WINS. Then we'll turn our attention to security components like certificate services, PKI, and IPSec. Lastly, we'll visit the remote-access infrastructure implemented through the Routing and Remote Access Server service, including IP routing and Internet sharing features like Internet Connection Sharing and Network Address Translation, just to name a few of the major points. The Implementing and Administering a Windows 2000 Network Infrastructure exam is generally said to be the toughest of the four Windows 2000 MCSE core exams, but with your passport, you'll be well prepared for this exam and can let it act as a stepping stone to your certification.

The Windows NT 4.0 MCSE certification has enjoyed tremendous industry support, but the Windows 2000/XP MCSE certification will without a doubt be an even more sought after certification.

Your Guide—Rory McCaw

Look out folks! Your guide, the author of this book, is none other than Mr. Rory McCaw. If by some chance you don't know Rory or haven't had the opportunity to hear him speak, let me tell you—Rory is the author of multiple titles on the topic of Windows 2000 and is a sought after Microsoft Certified Trainer. You may have seen and heard Rory speak at Comdex, where he developed and presented seminars on the features of Windows 2000 for Microsoft. When not writing or speaking, Rory's hard at work teaching Microsoft curriculum throughout North America at a number of Certified Technical Education Centers (CTECs). Rory operates his own consulting company out of the Toronto area, and in his personal time can be found gracefully carving turns on ski slopes throughout the world. Whether speaking in front of a group or writing a book, Rory's presentation style glows with personality. You'll feel his infectious enjoyment of Windows 2000 and

appreciate his marvelous ability to explain technical concepts in laymen's terms. Get ready for nothing less than a literary breath of fresh air!

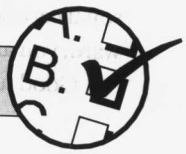
Why the Travel Theme?

One of my favorite topics is the parallel of gaining a certification to taking a trip. All of the elements are the same: preparation, an itinerary, a route—even mishaps along the way. Let me show you how it all works.

This book is divided into eight chapters. Each chapter begins with an itinerary, which provides objectives covered in each chapter and an ETA to give you an idea of the time involved in learning the skills in that chapter. Each chapter is broken down by real exam objectives—either those officially stated by the certifying body or, if the vendor doesn't provide these, our expert take on the best way to approach the topics. Also, each chapter contains a number of helpful items to bring out points of interest:

Exam Tip

Points out critical topics you're likely to see on the actual exam.



Travel Assistance

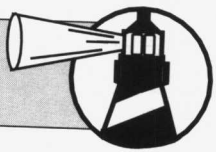
Provides you with additional sources, such as books and Web sites to give you more information.

Local Lingo

Describes special terms in detail in a way you can easily understand.

Travel Advisory

Warns you of common pitfalls, misconceptions, and downright physical peril!



The end of the chapter gives you two handy tools. The Checkpoint reviews each objective covered in the chapter with a synopsis—a great way to quickly review. Plus, you'll find end-of-chapter questions to test your newly acquired skills.

But the fun doesn't stop there! After you've read the book, pull out the CD and take advantage of the free practice questions! Use the full practice exam to hone your skills and keep the book handy to check answers.

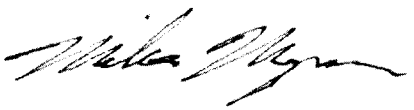
If you want even more practice, log on to www.Osborne.com/Passport where, for a nominal fee, you'll get additional high-quality practice questions.

When you're passing the practice questions, you're ready to take the exam—go get certified!

The End of the Trail

The IT industry changes and grows constantly—and so should you. Finishing one certification is just a step in the ongoing process of gaining more and more certifications to match your constantly changing and growing skills. Read the Career Flight Path at the end of the book to see where this certification fits into your personal certification goals. Remember, in the IT business, if you're not moving forward, you are way behind!

Good luck on your certification! Stay in touch!



Mike Meyers
Series Editor
Mike Meyers' Certification Passport

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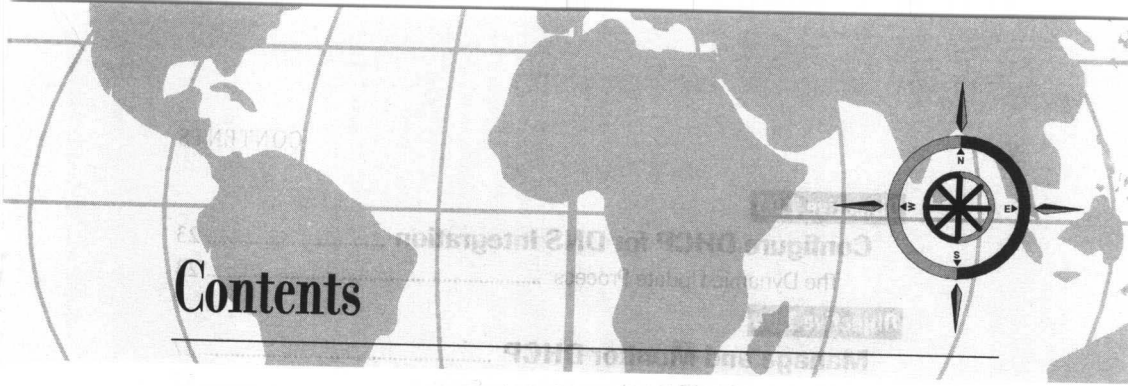

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