Training & Workshops from
*MDM**and**GP**answers.com*

Group Policy & MDM Master Class

Syllabus & information for:

- Public Classes &
- Private Classes &
- GP Online University

Contents

Introduction

Group Policy is super powerful. It's Microsoft premier in-box way to manage desktops, laptops and VDI for domain joined machines.

MDM (Mobile Device Management) is "up and coming" and helps manage your non-domain Windows 10 joined machines.

If you want to know more about managing your desktops with what you already have (in-box Group Policy) or are thinking about some future scenarios with MDM then you are reading the right stuff!

The following pages will outline the training that ***MDMandGPanswers.com*** offers to get you up to speed with Group Policy.

This outline is for the **MDMandGPanswers.com: Group Policy + MDM Masterclass**, which lasts 3 days and can be run either publicly or privately or can be taken Online.

Read on to discover what's available, what it covers, what you'll take away, and who teaches it. You'll also find feedback throughout the document from previous participants. Administrators feel that they came to get answers and solutions – and they leave when them.

To book your Public or Private class or Online University seat immediately or use a PO, please call 215-391-0096, or visit us online at www.MDMandGPanswers.com.

> If you want to learn everything about Group Policy, then you need to attend Jeremy's training class, I came in as a novice and left an expert. Jeremy speaks to you, not above you.
> —*John Shorey, Desktop Computing Specialist, Princeton University*

Recent participants in *MDMandGPanswers.com* Master Classes.

Why Get Training in *both* On-Prem Group Policy and Cloud MDM?

What is Group Policy, and why does it matter?

Group Policy *is* what you do with Active Directory — you control and manage your clients and servers with the nearly limitless power it offers.

However, with power comes responsibility. The power of Group Policy is in the way you can make a "wish" from a central location and your clients' systems can embrace that wish. However, if it's implemented incorrectly or carelessly, unexpected and costly consequences will most certainly occur.

The best time to learn how to use the power of Group Policy is right now! Make sure the people in charge of Active Directory operations have a firm grasp on the concepts of Group Policy to *avoid* costly mistakes and downtime.

What is MDM, and why does it matter?

MDM stands for Mobile Device Management, and it's a "cousin" to in-box Group Policy.

MDM is a cloud-based way to get "Group Policy-like directives" to your MDM enrolled machines.

There are many MDM vendors, like Microsoft Intune, MobileIron, and Airwatch to name a few. But this class is MDM-vendor "agnostic" and will explain what is possible (and not possible) with the in-box MDM services inside Windows 10 that all vendors must adhere to.

MDMandGPanswers.com Master Class Course Breakdown:

Three day **Group Policy + MDM Masterclass** Workshop:

- Win 7, Win 8, 8.1, and Windows 10
- Windows Server 2003, 2008 & R2, 2012 & R2 and Server 2016 specifics
- Troubleshooting Security, Special Group Policy operations, All the Group Policy Preferences, Advanced Group Policy and MDM Troubleshooting, and TONS more.
- MDM: Essentials, working together with Group Policy, migration, and capabilities.
- Free and 3rd Party Tools Group Policy and MDM tools.

Here is the technical content breakdown:

- 80% Group Policy "In the box" from Microsoft.
- 10% MDM "In the box" from Microsoft.
- 10% Other desktop and server management "Must Dos" and tips

Who Should Take Our Hands-On Group Policy Workshops?

Our workshops are primarily meant for:

Active Directory Architects:

- This type of administrator needs to know which sections of Group Policy should be addressed for their rollout, and which should be avoided.

End-User Computing / Desktop Design Engineers:

- Craft the desktop; don't leave it up to end-users to walk all over you. Use the power of Group Policy and MDM to be in charge; not your users.

Domain Administrators, Server Operators, and Server Administrators:

- These professionals want to plan and manage their Group Policy design the right way, the first time! Or, maybe a second time if you have a Group Policy mess.

Security Administrators:

- Group Policy touches every single aspect of Active Directory security. If these administrators have a firm foundation in Group Policy, they can ensure that security directives are accurately implemented and enforced.

OU Administrators:

- These key administrators need to understand how to create and manage Group Policy just as much as Domain Administrators do.

Desktop Administrators:

- If Group Policy or MDM stops functioning, the Desktop Administrator will need the skills to troubleshoot and assist the server administrators.

MDM Administrators:

- Got MDM? If you have MDM for phones and want to understand how you could start to use it for desktops, and want to know how Group Policy is involved, this is the class for you.

Confident Administrators after finishing the *MDMandGPanswers.com* Master Classes.

Your Group Policy Class

The Group Policy Masterclass Workshop from *MDMandGPanswers.com* supercharges your confidence when dealing with Group Policy.

Summary

Lesson	Summary
1. **Group Policy Overview**	What are the moving parts about Group Policy and Group Policy theory?
2. **Group Policy Basics**	Why does Group Policy work this way?
3. **Group Policy Processing**	Understand how Group Policy works differently for each operating system.
4. **Group Policy Security**	Learn to work together as a team inside the Group Policy system and how to secure your endpoints.
5. **Special Group Policy Processing**	Ready to learn about WMI filters and Loopback policy?
6. **Group Policy Central Store**	Learn the ins-and-outs of centralized management of ADMX files in Group Policy.
7. **Group Policy Preferences**	Group Policy Preferences adds 21 categories to your endpoint management.
8. **What's new in Windows 10 Group Policy**	Windows never stands still. So you need to stay up to date on the latest items you can manage with Group Policy.
9. **Group Policy and MDM**	MDM is the new guy. Learn best MDM cases, how to work alongside, Group Policy or transition from Group Policy to MDM if desired.
10. **Troubleshooting Group Policy and MDM**	Get the key skills you need should problems occur in your real world.
11. **Managing Applications on your Desktops**	Got applications on desktops? Then manage them!
12. **Microsoft AGPM**	Work together as a team and perform true "workflow management" with Group Policy.
13. **Microsoft Security Toolkit**	Implement stronger security on servers and endpoints with Microsoft's free toolkit. Use what you learn here to deploy security settings with Group Policy or MDM.

> " "After listening to Jeremy, I felt much more confident in working with Group Policy and using it for many benefits in our Organization. The book was a great supplement, too."
> —*Mark Flannery, Manager, IT Operations, Miller-Valentine Group.*

Training and Workshop Course Composition and Itinerary

Course Composition

Here is the breakdown of how the classes work:

- 33% Lecture/knowledge transfer
- 33% Demonstration of concepts
- 33% Hands-on lab time—turning concepts into practice
- 1% Time to catch your breath!

This training approach helps students understand the material on multiple levels and reinforces the concepts *before* they put their knowledge into practice in production.

Itinerary

- We generally start at 8:30 or 9:00 and learn until 4:00 or 5:00 each day.
- AFTER CLASS (optional): Each day after class, students are welcome to learn about our sister company's tool, PolicyPak Software… which hooks into Group Policy and MDM.
- We have learning, demonstration, and lab time — 100% focused on desktop management using Group Policy and upcoming technologies like MDM.
- Most classes break an hour for lunch each day.

Note / Warning / Information

This itinerary may be somewhat different than what is actually delivered. While we try to do our best to stick to the itinerary, sometimes accommodations must be made for time and the good of the class. If you need one-on-one time with Jeremy to work on an issue you'd like to discuss, he will do every effort to help you out.

A full house with Jeremy Moskowitz at TechEd 2014.

Group Policy + MDM Master Class Live (3 Days)

Why Take the Live Group Policy + MDM Master Class?

Microsoft doesn't have its own course dedicated to Group Policy or MDM. And Microsoft's own Official Curriculum on Active Directory has very little emphasis on Group Policy—arguably the most important part of day-to-day Active Directory administration.

And with regard to MDM, you can get "Vendor Specific" training for a 3rd party MDM tool, but you will learn the underlying truth of what is going on under the hood? Learn from a former Microsoft Group Policy MVP, Jeremy Moskowitz on the inner truth of what's possible and what's not with MDM.

Very few other training courses tap deep into the well of Group Policy and MDM to really ensure that students can confidently implement this powerful technology. Not only will the concepts be taught in an understandable way, but they will be reinforced with demonstrations, as well as hands-on labs designed to empower students to take the skills out of the lab and put them into practice!

This material has been battle-tested in companies around the world. It has been gathered from hundreds of Active Directory, Group Policy and desktop administrators managing thousands of endpoints and servers.

And whenever a new development from Microsoft is on the way, details will be included in the seminar, making the seminar absolutely up-to-the-minute.

Because Group Policy touches every single server, desktop, and laptop, all administrators need to understand these very important theories and concepts! There are hundreds of real-world techniques, skills, and best practices taught in class which can save time and money for your organization.

After you've taken our seminar, your whole staff can be on the same page when implementing and utilizing Group Policy in your organization. The information in our courses is valid for those companies with 2003-, 2008-, 2008 & R2, 2012 & R2, or 2016-based domains with Win 7 – Windows 10 clients!

If you have more than 10 workstations and more than 3 servers, you'll need to know how to leverage the power of Group Policy and/or MDM.

> I finally figured out how we would block out USB ports, games, and lock down users. This alone made the entire class an extremely valuable and fun learning experience. I learned how to use [the] event viewer to track a single event in group policy—so easy but powerful! I learned how to set up various restrictions on a PC for different users. A tremendously valuable feature! I cannot wait to get back to the office and implement what I have learned. I highly recommend the whole week to anyone who has anything to do with Group Policy. **Nothing beats these classes, nothing.**
>
> *—Mark Latham, PC Support Specialist, Mercy Regional Medical Center*

Group Policy Master Class Outline

Note: We are constantly improving and updating. Your actual course outline may differ slightly from the details shown here.

Welcome, Introductions, and Lab Setup

Group Policy Overview

Talk & Demo	• Group Policy functions • Group Policy processing basics • Group Policy levels and precedence • Discussion of where GPOs live (the swimming pool concept) • Where does Group Policy apply? • When does Group Policy apply (Win 7 – Win 10 1, Windows Server 2003- Server 2016) • The GPMC—quick tour • Why your IT machine MUST be Windows 10 in the future to get maximum benefits of Group Policy.
Labs	• Working with the GPMC • Creating and deleting GPOs • Creating GPOs that are linked to sites

Group Policy Basics

Talk & Demo	• Linking a GPO to multiple levels in AD • Link enabled vs. disabled • Delete vs. unlink • Enforced (No Override) • Block inheritance • Priority • Security filtering by Group • Security filtering by advanced properties • Dealing with MS16-072 Patch which changes Group Policy Processing
Labs	• Creating and linking GPOs to specific OUs • Block inheritance • Security filtering • Modifying Group Policy Objects for MS16-072 patch

> After taking Jeremy's Group Policy Class, my staff and I were able to reduce the number of help desk calls dramatically! Thank you Jeremy!
> —*Scott Iver, MCSE Systems Administrator, Royal Canin USA, Inc.*

Group Policy Processing

Talk & Demo	• All about Backup & Restore • What happens when you log on (and after you log on) • What's happening under the hood and "Status" • Manual Policy Processing • Dialling Up / VPN and slow-links • Resultant Set of Policy
Labs	• Backup and restore GPOs • Remote GP update • RsOP calculations

Security Implementation with Group Policy

Talk & Demo	• Delegating responsibility for GPO creation and management • Under the hood of Group Policy security • The special default GPOs (Default Domain Policy GPO and Default Domain Controller Policy GPO) • Multiple Password Policy / FGPP • Restoring Default GPOs back to their original settings if necessary • Changing Default Permissions upon all GPOs which are created (to work around MS16-072) • Windows Applocker application security • How to automatically rotate local admin passwords on endpoint with "LAPS"
Labs	• Delegating responsibility for GPO creation and management • Windows AppLocker • Changing Default Permissions upon all GPOs which are created (to work around MS16-072) • LAPS: Local Admin Password Solution

Special Group Policy Processing

Talk Time	• WMI Filters • Loopback Processing
Labs	• WMI Filters toolkits • Making WMI Filters • Managing Loopback

> " After going to one of his sessions... I was able to deploy Group Policy at my company with confidence!
> —*David R., Urbaniak WorkWise, Inc.*

Group Policy Central Store

<table>
<tr><td rowspan="1">Talk & Demo</td><td>

- ADM and the Pre-History of ADMX Files
- Solving SYSVOL Bloat
- Creating the Central Store
- Curating the Central Store
- Using the Central Store with Microsoft Office and other ADMX files
- Migrating ADM to ADMX

</td></tr>
<tr><td>Labs</td><td>

- Creating the central store
- Curating the central store and keeping it up to date

</td></tr>
</table>

Group Policy Preference Extensions

<table>
<tr><td rowspan="1">Talk & Demo</td><td>

- Making them work with older machines like Windows XP and Windows 2003
- Don't miss MUST DO for Win 7 / 8 / 10 before getting started
- Understanding which clients can utilize GPPrefs
- Manually delivering the update to existing clients
- Automatically delivering the update to existing clients
- Preference vs. Policy
- Understanding the 21 new categories of features
- Action modes
- Common Tab
- Circles and Lines
- Dealing with the "overlap" of original Group Policy features vs. GPPRefs
- Item-level targeting
- Group Policy Preference Extensions reporting
- Sharing your work with other administrators
- Leveraging Group Policy Preference Extensions to reduce the number of images
- Leveraging Group Policy Preference Extensions to reduce need for Logon Scripts

</td></tr>
<tr><td>Labs</td><td>

- Group Policy Preference Extensions
- Configuring GPPrefs for Win 7/8/10
- Using GPPrefs (lots and lots of labs here)

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What's new with Group Policy and Windows 10

Talk & Demo

- Windows 10 ADMX Extras: MS Edge, Trimming Settings, Pro Vs. Ent.
- Windows 10 "Guards": DeviceGuard, Credential Guard,
- Windows 10 Start Screen Manager
- Preventing Malware
- IE 11: Enterprise and Document Modes (and working with Edge)
- "Windows as a Service" and "Windows Update for Business"
- Where do MDM and Group Policy fit together?
- Understanding Group Policy and Azure AD.
- ...MORE as it gets released with additional upgrades to Windows !

Labs

- Create Settings shortcuts to Win10 desktop using Group Policy Preferences
- Managing IE Enterprise and Document Modes using Group Policy
- Making "Rings" for Windows as a Service / Windows Update for Business

> " [I] used the tools he demonstrated and those tools saved me a lot of time and money.
> —*Will Fahim, Senior Network Engineer, County of Orange, CA*

All about MDM, co-existence and Group Policy migration

Talk & Demo

- What is MDM
- What is in-box MDM vs. Intune, Airwatch, MobileIron (hint: They're different.)
- What scenarios is MDM BEST for, vs. Group Policy BEST for?
- What is MDM trying to do vs. what is Group Policy trying to do?
- What tools can help me consider MDM?
- MDM for non-domain joined vs. domain joined.
- What happens if Group Policy + MDM get into a fight?
- 3rd Party Tools to help with Group Policy + MDM

Labs

- None

Group Policy and MDM Troubleshooting

Talk & Demo	• Common troubleshooting scenarios • What happens with multiple Domain Controllers? • What to expect from Event Logs • How to enhance Event Log reporting • How to troubleshoot MDM • How to turn up the juice on GPO output • How to troubleshoot at the desktop • A troubleshooting roadmap: Why won't Group Policy apply!?
Labs	• Finding and repairing a broken GPO • Features of GPResult

> ❝❞ After taking Jeremy's class, I was able to create and troubleshoot Group Policy in our environment. Others tried to convince me that the "Microsoft Standard" is to have one huge policy, but troubleshooting that policy for them was a nightmare. After they saw how easy it was to create smaller, less complicated policies, **troubleshooting became a piece of cake**.
> —*David Nietrzeba, Server Administrator, University of Toledo*

Managing Applications using Group Policy

You've got lots of applications, but how are you going to manage their settings using Group Policy? If you've ever wondered how to manage applications like Adobe Acrobat, Firefox, Java JRE, Lync client, and more — you are going to learn how to do it in this lesson! In this lesson you'll learn the following:

Talk & Demo	• Group Policy + ADM/ ADMX files • Group Policy + PowerShell • Group Policy + PolicyPak Application Manager (pay 3rd Party tool) • Learn the difference between "Red Dot" and "Blue Dot" ADM and ADMX files. • Learn what the "proper" policies keys are. • Learn how to convert ADM to ADMX files for applications you likely already use and own.
Labs	• Office ADMX files • Group Policy + PowerShell • PolicyPak Application Manager test drive

Microsoft AGPM (Advanced Group Policy Management)

If you use Group Policy "out of the box" there's no "Are You Sure" or "Oops, I didn't mean to do that" button. AGPM brings true "change management" to Group Policy.

Many companies already PAY for Microsoft AGPM, but don't know where to start.

This secret weapon ensures that your whole team works together when it comes to Group Policy management.

PS: Even if you don't have AGPM, it's worth understanding it anyway, because there are other 3rd party tools which are like it which can be utilized instead of AGPM and work similarly.

Demo	• Learn the "moving pieces" of AGPM • Learn how to install and configure AGPM • Learn the common mistakes — and how to avoid them when using AGPM • Working as team within AGPM and the GPMC.
Labs	• AGPM tasks • AGPM working with others • Using the workflow system

Hands on labs give you the confidence to deal with Group Policy changes in your environment, roll back if problems occur, and more quickly troubleshoot Group Policy when multiple administrators are involved.

Microsoft and 3rd Party Security Guidance

Microsoft has guidance to help get all your machines more secure.

You need to be able to find and use this guidance, and then ensure you can deliver this guidance via Group Policy or MDM.

Learn about the Security Compliance Toolkit where you can download "prescriptive guidance" from Microsoft (that is, how Microsoft thinks your machines should be configured.) Then you can modify these prescriptions, and/or make your own.

Learn about other guidance sources from US government and other sources you can download and use to make your machines more secure.

Talk	• Learn all about Security Compliance Toolkit; be able to make your own decisions about how to use its functions to manage your desktops and servers • Learn about the LocalGPO SCM utility: deliver and manage Group Policy settings to non-domain joined machines. • Learn about other non-Microsoft guidance to help get you more secure. • Learn to analyze multiple GPOs and compare them for differences
Labs	• Implementing Microsoft Security Baselines • Using Microsoft PolicyAnalyzer to compare differences

> 66 Jeremy ... really has a great way of explaining things in a way that is easy to understand. If you are new to AD or GPOs, his style helps you understand rather than clouding the issue, which can sometimes happen when speakers think they are talking to seasoned admins. I found his books to be a valuable resource and a treat. Not only because of the content, but his writing style is similar to his speaking style. I don't get lost and my eyes don't glaze over. There's humor there that I find rare in other IT writings.
> *—Pamela Greaves, Information Technology Specialist II, Solano County Library*

> 66 As always, your insight is invaluable. The gems you've provided in your books have saved me hours of research time. The personal touch with e-mail responses is untouchable! Many thanks and keep up the brilliant work!
> *—Roberto Garcia, Senior Network Engineer, LanLogic*

About Your Chief Instructor: Jeremy Moskowitz

Who Is Jeremy Moskowitz?
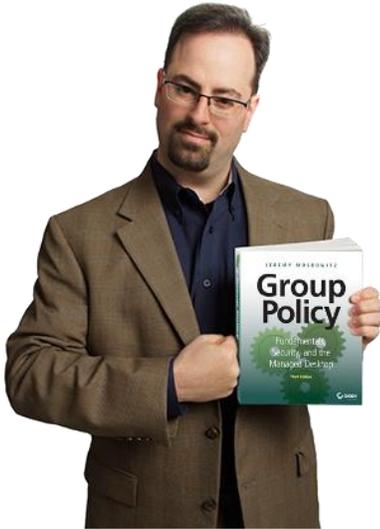
Jeremy Moskowitz is chief Propeller-Head for **MDMandGPanswers.com** and Founder of **PolicyPak Software**.

Jeremy is a former Microsoft Group Policy MVP, one of less than a dozen Group Policy MVPs worldwide, is the most-published author on Group Policy, and a prolific Group Policy speaker worldwide.

Since becoming one of the world's first MCSEs, he has performed Active Directory and desktop implementations for some of the nation's largest organizations.

Jeremy runs MDMandGPanswers.com to help people get their tough Group Policy questions answered.

His books and articles have been read by millions and translated into multiple languages. Jeremy has written for Windows IT Pro Magazine, REDMOND Magazine, Microsoft Technet Magazine, Inside Technology Training Magazine, PC Magazine, & Ziff-Davis' Windows Professional Journals, among others.
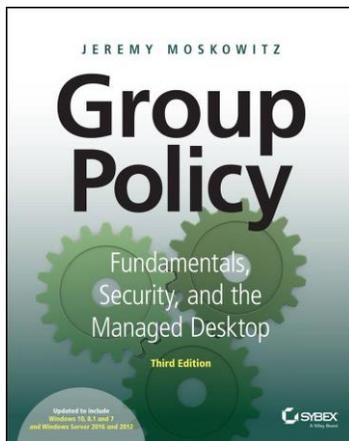
Jeremy has spoken at just about every existing Windows conference about Group Policy, including Microsoft TechEd / Ignite, Microsoft Management Summit, WinConnections, and TechMentor.

Jeremy's Group Policy-based software, PolicyPak is on thousands of desktops worldwide, enabling administrators to gain more control using Group Policy.

Jeremy's approach to Group Policy learning and implementation is the same as his approach to his book. Here is what the Group Policy team at Microsoft said about his book:

> ❝ Jeremy's book is exceptional! It covers the concepts and details of Group Policy, GPMC, and troubleshooting in a clear, straightforward way. ❞
> – *Mike Dennis, Lead Program Manager, Group Policy, Microsoft*

Some comments about Jeremy's live seminars

Good, fast paced! Covered a lot quickly and at a detailed, advanced level.

Excellent topic, excellent presentation, excellent speaker.

A wizard!

Technical yet understandable!

Great speaker, very vibrant and interactive.

Outstanding speaker!

His enthusiasm is catching.

Tons of great material!

Nothing short of superb!

Great for beginners or experts!

The tools are useful, the examples/demos make sense of abstract & complex concepts.

What People Have Said About Jeremy's Group Policy Book

This book is an unbelievable resource for anyone needing "The Word" on Group Policy. Incredibly clear, highly detailed, and well organized! This goes way beyond any documentation that has been produced—Jeremy clearly spent a *lot* of time digging through the guts of Group Policy and testing *everything*. There is information here I haven't seen anywhere else—**I would not be surprised if Microsoft's own Group Policy team learned a few things from reading this book**. If you are planning, deploying, or troubleshooting Group Policy, do yourself a favor and *get this book*!
—*Dan Holme, Intelliem*

It's a pleasure to read and the author's knowledge and devotion to the subject come shining through. **If you need to design or support Group Policies then you must buy this book.**
—*Duncan Gibbs*

This book is, without a doubt, the **best technical reference book I've ever read**. The concepts are explained clearly and thoroughly. If you are struggling with how to make use of group policy to manage your desktop and server environment, *buy this book!*
—*Eric Johnson*

About Group Policy Answers Instructor: James Conrad

Who Is James Conrad?
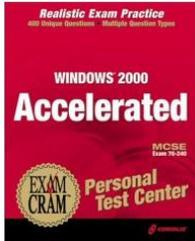
James I. Conrad, MCSE 2003, Server+, A+, Certified Ethical Hacker.

For years, James Conrad has been a sought-after consultant and trainer for Fortune 500 companies. James has been an exam writer for Microsoft MCSE exams and was a key contributor in determining MCSE exam objectives in the Microsoft Certification and Skills Assessment division.

He has trained and consulted for Intel, UCLA, Raytheon, Compaq, Hewlett-Packard, MCI Worldcom, Sprint, Exxon-Mobil, Boeing, Lockheed Martin, the U.S. Department of Justice, the Bureau of Land Management, and many others.
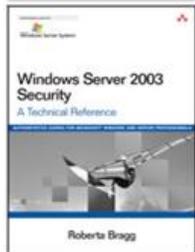
James writes internal training materials for current Windows products and has authored *Windows 2000 Server for Computer Associates*, and *Windows XP Desktop Administration* for the Windows Consulting Group, among others. He has also been a technical editor for many books including *The Tips and Tricks Guide to Securing .NET Server* by Roberta Bragg and *Windows Server 2003 Security: A Technical Reference* also by Roberta Bragg. James also wrote the CompTIA Server+ college curriculum for Thomson Learning.

James wrote five Personal Test Center Windows 2000 Professional exam preparation tests for Coriolis. James has also written the popular Windows 2000 Server, Windows 2000 Professional, and CompTIA Network+ certification books for ComputerPrep. James also served as the technical editor for Thomson Learning's Network+ college curriculum. James is currently the lead instructor for CBT Nuggets, a leading Microsoft, Cisco, and Linux video training source.

What are students saying about James Conrad?

❝❞ James's class was excellent. This is not exactly an easy concept to teach but the instructor and materials were very informative and easy to comprehend.

I had been looking for some time for training on Group Policy, but nothing ever came along. I learned some things that my boss wants me to implement, so it was very timely!!

I just wanted to let you know that the 3-day class last week was *great*! James did an outstanding job with the training.

This type of class was desperately needed. The class itself was great. It provided training on the tools we need to get the job done here at [our organization].

Final Thoughts from *MDMandGPanswers.com*

When it comes to Group Policy and MDM, *no one* teaches it better than Jeremy Moskowitz.

Students will learn hundreds of real-world uses for this powerful technology combo. When the classes end, the students can be confident in the skills they've learned.

The courses are a 1-2-3 punch:

1 Knowledge transfer

2 Concept demonstration

3 Hands-on lab time

This training approach helps students understand the material on multiple levels and reinforces the concepts *before* they put their knowledge into practice in production.

Both public and private classes are available to suit your schedule and needs.

Book your class online today at *www.MDMandGPanswers.com*! You can also call or e-mail. See you soon!

> " After hearing Jeremy speak, I was immediately able to confidently use GPMC, and successfully deploy many GPOs which have saved my sanity and added years to my life. Having a copy of Jeremy's...book on hand has given me instant access to many of those "How does this work in the real world?" questions. Thanks Jeremy, You are awesome!
> —*Tad Johnson, Lead Systems Administrator*
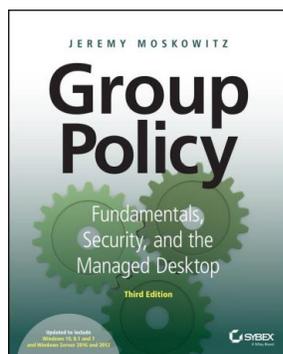
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