



MICE Training & Education™

"Nibbling @technology a byte at a time!"

PCS 102: Intermediate PC Security Online Course Syllabus

Module 01

Welcome to the second half of PC Security! In this course, we are going to take the fundamentals of what you learned in 101 to a whole new level.

Have you ever tried to use your Internet browser and received an error that the page cannot be displayed, you are not connected, or you don't have access? If so, you may have been under an attack! Denial of Service attacks and SYN flooding are two types of network attacks that seem to go unnoticed on personal PCs and small networks. Why? Because beginners don't know what they are, why they are happening, or where they are coming from. After this module, you will no longer be left wondering what happened to your Internet connection!

Module 02

Do you remember the stories of King Arthur and the Knights of the Round Table from childhood? Well, I like to think of the module on firewalls in those terms.

You'll learn the fundamentals of networking as it relates to packets, filtering, firewalls and routers. Journey with me to learn how to start building your moat around your network!

Module 03

Now that we have the moat dug around our castle, it's time to fill it with water and alligators to keep the predators away! In this module, we'll delve into the process of security and fine tune our router settings. But we won't just show you how and what to set, you'll understand why you are changing the settings!

Module 04

The whole world is going down the path to wireless access. Yet, as you've learned in PC Security 101, wireless is anything but secure. In this module, we'll address the entire spectrum of wireless security so that you have a clear understanding of why wireless security is still not where it needs to be and what you can do to bridge the gap.

Module 05

Now that you have your moat built, it's time to load up the alligators, man the castle walls, and arm the defenses. Or in other words, learn how to configure your firewall and maximize your network security! And no, I am not speaking about the Windows so-called firewall in XP and Vista. We are going to talk about the real stuff!



Module 06

I am going to share my love for VPNs with you. You'll learn what a Virtual Private Network is, how it's different from standard networks, how it works, how to secure it, and how to set up your own. Isn't that exciting? Just think about the possibilities! You can share files across the miles to family by allowing them to connect remotely to your designated shared folders. You can share music files, family pictures, and anything else you chose to give them access to.

Module 07

So many questions, so little time. When is a VPN not a VPN? When you're using remote desktop applications! Is there a difference between a VPN and remote desktop software? If so, which is the best solution and how do you decide?

What about meeting software? Is it secure? If so, which provider or software should you choose?

And what about Skype and VoIP? For that matter, what about cellular security? After all, aren't cell phones becoming mini computers?

These questions and many more will be answered in this module!

Module 08

And so we close our two courses on PC Security. What lies ahead for you? For the PC industry? For security as a whole?

While we can make predictions with some certainty based on history, there are no guarantees. No one can say for sure which road security will take from hackers to venders, down to users.

If you are now contemplating a career change to the security field, we'll discuss some of the opportunities in the field, make some suggestions for follow-up, and point you into the right direction.

If you're just happy securing your home network, securing your small business data, and walking away from these courses empowered, we have some recommendations for you too!