



# Masterclass: Securing Windows Infrastructure

by Paula Januszkiewicz, CQURE Academy (3 days)



## Paula Januszkiewicz

Paula Januszkiewicz is the world-known Security Expert. Loves to perform Penetration Tests, IT Security Audits and after all she says: 'harden'em all'! Enterprise Security MVP and trainer (MCT) and Microsoft Security Trusted Advisor.

## Overview

For so many years we have been asked to create a course like this! This course is just a great workshop that teaches how to implement securing technologies one at a time. The course covers all aspects of Windows infrastructure security that everybody talks about, but during the course you will learn how to implement them! Our goal is to teach you how to design and implement secure infrastructures based on the reasonable balance between security and comfort with great knowledge attacker's possibilities. We really want you to go out from the class with the practical, ready-to-use and holistic approach and skills to secure your infrastructure.

This is a deep dive course on infrastructure services security. It is a must-go for enterprise administrators, security officers and architects. Delivered by one of the best people in the market in the security field – with practical knowledge from tons of successful projects, many years of real-world experience, great teaching skills and no mercy for misconfigurations or insecure solutions.

This course is an intense workshop! During these 3 days we provide the caffeine candies – this course is really intense and in order to not miss a thing you MUST stay awake! We really want you to leave the class with the practical, ready-to-use knowledge on the ways to secure your infrastructure.

## Target audience

- Enterprise administrator
- Infrastructure architect
- Security professional
- System engineer
- Network administrator
- IT professional
- Security consultant



## Prerequisites

To attend this training you should have a good hands on experience in administering Windows infrastructure. At least 8 years in the field is recommended.

## Materials

Authors' unique tools, over 200 pages of exercises, presentations slides with notes.

## Agenda

### Module 1. Designing Secure Windows Infrastructure

1. Providing the complete knowledge for the areas that can be secured

### Module 2. Securing Windows Platform

1. Defining and disabling unnecessary services
2. Implementing secure service accounts, permissions and privileges
3. Driver signing

### Module 3. Malware Protection

1. Techniques used by modern malware
2. Malware investigation techniques
3. Analyzing cases of real malware
4. Implementing protection mechanisms

### Module 4. Managing Physical Security

1. Managing port security: USB, FireWire, and other
2. Mitigating Offline Access
3. Implementing and managing BitLocker

### Module 5. Deploying and configuring Public Key Infrastructure

1. Role and capabilities of the PKI in the infrastructure
2. Designing PKI architecture
3. PKI Deployment - Best practices

### Module 6. Configuring Secure Communication

1. Deploying and managing Windows Firewall - advanced and useful features
2. Deploying and configuring IPsec

3. Deploying secure Remote Access (VPN, Direct Access, Workplace Join, RDS Gateway)
4. Deploying DNS and DNSSEC

### Module 7. Securing Web Server

1. Configuring IIS features for security
2. Deploying Server Name Indication and Centralized SSL Certificate Support
3. Monitoring Web Server resources and performance
4. Deploying Distributed Denial of Service attack prevention
5. Deploying Network Load Balancing and Web Farms

### Module 8. Providing Data Security and Availability

1. Designing data protection for Microsoft Office, PDF and other file types
2. Deploying Active Directory Rights Management Services
3. Deploying File Classification Infrastructure and Dynamic Access Control
4. Configuring a secure File Server
5. Hardening basics for Microsoft SQL Server
6. Clustering selected Windows services

### Module 9. Mitigating the common password attacks

1. Performing Pass-the-Hash attack
2. Performing the LSA Secrets dump

### Module 10. Automating Windows Security

1. Implementing Advanced GPO Features
2. Deploying Software Restriction: AppLocker
3. Advanced PowerShell for administration



## Certification

At the end participants will receive the Certificate of Achievement signed by the CQURE Trainer.

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### When

17-19.06.2015

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### Standard Price

5250 PLN net / person

1300 EUR net / person

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### Where

GoldenFloor Plaza

Al. Jerozolimskie 123A, Warszawa

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### Discounts

ISSA Poland Membership:

Standard Price -10% off

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### Sales:

Aneta Gawęcka-Malec, Training Manager (PL / EN / CZ)

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