

# Foundations of IT Security: Core Concepts

with Lisa Bock

## Operating System

	Understand security layers				Understand OS security						Understand network security				Understand security software		
	1.1 Understand core security principles	1.2 Understand physical security	1.3 Understand Internet security	1.4 Understand wireless security	2.1 Understand user authentication	2.2 Understand permissions	2.3 Understand password policies	2.4 Understand audit policies	2.5 Understand encryption	2.6 Understand malware	3.1 Understand dedicated firewalls	3.2 Understand Network Access Protection	3.3 Understand network isolation	3.4 Understand protocol security	4.1 Understand client protection	4.2 Understand email protection	4.3 Understand server protection
<b>Understanding User Authentication</b>																	
Creating Strong Passwords					X	X	X										
Using Smart cards, tokens, and Multifactor					X				X								
Understanding biometric security					X												
Introducing RADIUS					X												
<b>Understanding Permissions</b>																	
Exploring NTFS, File, Share, and Registry security						X											
Understanding Permission behavior						X											
Diving into the Active Directory-Structure						X											
Dissecting Active Directory-Components						X											

Understanding Audit Policies															
Enabling auditing									X						
Determining what to audit									X						
Saving and securing audit files									X						
Protecting the Server															
Isolating the Server															X
Hardening - updates and patching															X
Protocol good practices															X
Using the Microsoft Baseline Security Analyzer (MBSA)															X
Understanding Email Projection															
Protecting the email Client														X	
Protecting the email Server														X	
Using Sender Policy Framework (SPF) records														X	
Understanding PTR records														X	
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