

Professional Workbench

CYBERSECURITY

**MASTERCLASS
WITH
AI INTEGRATION**



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Cybersecurity Masterclass with AI Integration Course

Includes:

- **Intro Lab Setup** - How to set up your own home lab environment
- **Introduction** – An Introduction to Cybersecurity
- **Computers 101** – How computers work
- **Networks and Network Security** – Fundamentals of computer networks
- **Windows Server** – Microsoft's server operating system
- **Linux Operating Systems** – Linux server operating systems
- **Privileged Access Management** – Managing privileged accounts
- **Public Key Infrastructure** – Fundamentals of certificates
- **Identity & Access Management** – Managing users and their access
- **Virtualization** – Learning to share resources for multiple devices
- **Containerization** – Learning a more portable solution to virtualization
- **Disaster Recovery** – Business continuity after a disaster
- **Cloud Computing** – Learn to build your computer networks in the cloud
- **Threat Intelligence** – Identify the vulnerabilities before they are attacked
- **Governance, Risk and Compliance** – Rules that organizations operate by
- **Incident Response** – Learn how to respond to an attack
- **Penetration Testing and Ethical Hacking** – Learn to think like an attacker
- **Digital Forensics** – Investigate the incidents
- **Programming and DevOps** – Learn to create applications and automate them
- **Endpoint Security** – Fundamentals for keeping computers safe
- **Reverse Engineering** – Learn to deconstruct malicious files
- **Databases and SQL** – Learn how to store information
- **Open Source Intelligence** – Learn to be a digital information detective
- **Introduction to Artificial Intelligence** – Learn how computers emulate humans
- **Artificial Intelligence in Cybersecurity** – How Cybersecurity effects AI
- **Generative AI** – Learn how to create with a supercomputer
- **Prompt Engineering** – How to tell a supercomputer exactly what you want
- **AI Agents** – Learn how to create digital coworkers that automate tasks

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The *Cybersecurity Masterclass with an AI Integration* is a complete, end-to-end learning journey designed to transform beginners into well-rounded cybersecurity professionals ready for today's AI-driven world. This program blends **core cybersecurity fundamentals** with **cutting-edge artificial intelligence techniques**, providing you with the knowledge, skills, and practical experience to secure modern digital environments.

You'll begin by setting up your own **home lab environment**, building the foundation to practice safely and hands-on. From there, you'll explore the essentials—**Computers 101**, **Networks and Network Security**, and the inner workings of both **Windows Server** and **Linux Operating Systems**. As you advance, you'll master critical security domains including **Privileged Access Management**, **Public Key Infrastructure**, **Identity & Access Management**, **Endpoint Security**, and **Governance, Risk, and Compliance**.

The course dives into advanced technical topics like **Virtualization**, **Containerization**, **Cloud Computing**, and **Databases with SQL**, preparing you to understand and manage complex enterprise systems. You'll also develop specialized expertise in **Threat Intelligence**, **Incident Response**, **Penetration Testing and Ethical Hacking**, **Digital Forensics**, and **Reverse Engineering**, equipping you to both prevent and respond to cyber threats.

What sets this masterclass apart is its integration of **Artificial Intelligence** into the cybersecurity landscape. You'll explore **Introduction to AI**, **Generative AI**, and **Prompt Engineering**, then apply those skills directly to the security field with **Artificial Intelligence in Cybersecurity** and **AI Agents**—learning how AI both defends and challenges security systems, and how to create digital coworkers that automate security tasks.

By the end of this masterclass, you'll not only understand the **entire cybersecurity lifecycle—from prevention to response to recovery**—but also how to leverage the **power of AI** to stay ahead in an ever-changing threat landscape. Whether your goal is to launch a career in cybersecurity, strengthen your technical expertise, or explore the frontier where **AI meets security**, this course will provide you with the knowledge, labs, and confidence to thrive.