

SYSTEM DEVELOPER

IT SECURITY

JOIN THE BATTLE FOR THE NEXT GENERATION OF CYBER SECURITY

This course will teach you on the most advanced tools and techniques used by cyber criminals. We will put you in the driver's seat of an interactive, hand's on learning environment that challenges you to test the integrity of systems and network by hacking them!

You also learn how to build secure systems and defend yourself and organizations from malicious hackers. Sought-after knowledge that leads to work.

HOW IT GOES

The course is free of cost for you and you are qualified by your local Arbetsförmedlingen office. The course is between 22-30 weeks long and it's implemented in blended form. The course is followed by internship at an organization with need of IT Security.

WHO IS IT FOR?

The IT security course is suitable for you who already know a lot in IT and are curious to learn even more in the subject IT security and become an ethical hacker. You have the curiosity and a good sense of problem solving. Your job will be very much about how we protect ourselves from today's vulnerabilities and also learn how to hack!

WHAT CAN YOU WORK WITH?

- IT security technician
- IT security consultant
- Network and security analysts
- Cyberanalyst
- Pentester
- Backend developer

COURSE CONTENTS

- Python programming basics
- Python programming Advanced
- Backend
- Database
- IT-security
- Cloud services



THE CONTENTS OF THE COURSE

All parts contain teacher-led review, laboratory work and exercises.

1. Programming

- Python Backend
- Javascript html/css
- Design algorithms
- SQL, NoSQL
- REST API
- Systemintegration, Network programming
- Backdoors, keyloggers and more...
- Website hacking,
- SSL & certificate management
- Encryption
- Shells scripting
- Regex
- Threading
- Recursion
- Data structure
- Socket programming
- Packet manipulation



- Smart phone vulnerabilities & security
- Kali linux, metasploitable.
- Deepweb /Darknet
- TOR
- Forensics, Hacker hunting & Anti-forensics
- IoT vulnerabilities
- OS hardening
- ARP spoofing, DNS spoofing
- Wordlist attacks
- OWASP ZAP, NIST
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Microsoft 365

- CloudVirtualized Infrastructure
- Cloudsecurity and vulnerabilities
- Microsoft Azure, Google, AWS and more

Content may vary as layout is adjusted as needed.

2. IT-security

- IT-LAW, SLA, Incident Management
- Basics Linux & Linux terminal, PowerShell
- Penetration testning
- Nmap & port scanning
- Honeypot
- Ethical hackning
- Social Engineering
- VPN & Firewalls
- OSI-model
- Networks basics
- Network securirty
- SQL injection, MITM
- Website hacking
- Trojans, viruses, keyloggers..
- Virutal machines, Docker ,RPI, Linux, FreeBSD and more.

