SPICED

Program Curriculum

Cyber Security

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The daily combination of theory and applications are exactly my learning format. It's crazy how much I've learned!

Nora
SPICED Graduate

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Hallo! 👋

Everyone has to start somewhere.

For us, it started in Berlin with a simple idea. To propel highly motivated people into the careers they want, through expert-led and meticulously curated tech courses.

We don't just teach the latest technologies, though.

Spiced is an attitude. It's a community and a melting pot. It's a place where you can meet and connect with people that could change the trajectory of your life. Those who help you develop professionally and personally. From your cohort and beyond.

Remember, no-one's born a genius - it's going to take hard work and dedication to get where you're going.

We're here with you, every step of the way 🚀

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Contents

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Secure your future.

The first step towards your next big opportunity, our Cybersecurity Bootcamp will equip you with the skills to launch a successful career in cybersecurity. From understanding security fundamentals to mastering threat detection and incident response, you'll dive deep into everything from networks to cloud security, ethical hacking, and risk management.

You'll not only gain hands-on experience with industry-standard tools and techniques but also build critical problem-solving, analytical, and communication skills that are essential in today's cybersecurity landscape.

And it's not just about the technical side. We focus on your career development too, offering interview tips, resume support, LinkedIn guidance, and personalized help as you step into your job search.

Ready for the next chapter? Let's get started! 💪

My time at SPICED was both challenging and rewarding. The bootcamp covered a wide range of topics, and I appreciated the hands-on projects that allowed me to apply what I had learned.

Serge Ten
SPICED Graduate

SPICED's tech stack offered the opportunity to learn the latest tools and frameworks.
My time here was challenging, exhilarating, and sometimes made me question my sanity.
I loved it!

Roberta Grasso
SPICED Graduate

The length and structure of the program appealed to me most. It was challenging but also motivating at the same time. I enjoyed it every step of the way!

Idil Inshakov
SPICED Graduate

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Before the Course

Before the course you'll be required to pass a short assessment. Nothing to sweat about, we just want to see how you are with basic concepts that will be important for your success in the course.

The curricula presented here are intended as a guide to the course content. We expressly reserve the right to make adjustments to the content and structure for didactic and organisational reasons, and to adapt the course to reflect the state of the art and current labour market requirements, without affecting the character of the course and the overall quality of the content.

What You'll Learn

(15 Weeks)

Phase 1

Explore computing devices, workstations, and OS management, learning troubleshooting, data types, and app/system interactions. You'll cover file systems, device interfaces, and input device configuration, while building problem-solving, independent work, and presentation skills in a hands-on workshop.

Important Topics

- Computing Basics
- Troubleshooting
- System Management
- Practical Skills

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Phase 2

Cover IT essentials like cable types, power supplies, storage devices, and configuring memory, CPUs, BIOS, and UEFI. You'll also explore networking fundamentals, including TCP/IP and router setup, while troubleshooting networked hosts and appliances. Week 3 focuses on IT hardware and virtualization, cloud concepts, mobile devices, and peripheral configuration, along with laptop installation and print device troubleshooting. In the final week, you'll prep for the CompTIA A+ Core 1 certification, reviewing hardware, networking, and security topics before the exam.

Important Topics

- Hardware & System Concepts
- Virtualization and Cloud Computing
- Networking & Network security
- Practical System Configuration Skills

Phase 3

Explore Windows and Linux OS, covering user settings, performance tools, installations, and upgrades. You'll also configure Windows security, shares, and Active Directory, while learning Linux/macOS basics and workstation security. Week 6 focuses on security and troubleshooting, including browser and mobile OS security, remote access, backup/recovery best practices, and workplace safety. The phase concludes with a workshop to enhance your presentation and problem-solving skills.

Important Topics

- Windows & Linux security settings
- Active Directory & security management
- Security baselines & vulnerability management
- OS hardening techniques

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Phase 4

Learn the OSI model, network interfaces, Ethernet switching, and IPv4 addressing. You'll dive into troubleshooting IP networks, including port scanning, DHCP, and name resolution. You'll also cover secure communications, authentication, and tiered switching architecture. The phase wraps up with a focus on wireless networks, remote access, and network hardening techniques to ensure robust network security.

Important Topics

- OSI model & Ethernet switching
- IPv4 addressing & subnetting
- Port scanning & network troubleshooting
- Network segmentation & firewalls

Phase 5

Cover security basics like threat actors, cryptography, and risk management, along with authentication and incident response. Week 9 focuses on threat detection, malware, network attacks, and penetration testing. The final week prepares you for the Security+ certification exam, reviewing key concepts and practicing with sample questions before the exam.

Important Topics

- Threat actors & attack vectors
- Security monitoring & SIEM tools
- Malware analysis & incident response
- Penetration testing & vulnerability scanning

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Phase 6

Cover Cybersecurity Analysis with CySA+, focusing on threat actors, vulnerability detection, incident response, and network security monitoring. You'll also explore web, app, and cloud vulnerability scanning, with workshops on incident response and projects. Week 12 covers exploiting vulnerabilities, scripting for automation, and risk assessment. Week 13 focuses on endpoint security, malware analysis, secure coding, and ethical hacking. The final week prepares you for the CySA+ certification, with vulnerability management, risk analysis, and exam practice leading up to the exam day.

Important Topics

- Exploiting security vulnerabilities
- Endpoint security & malware analysis
- Security automation & scripting
- Risk assessment & compliance frameworks

Phase 7

Dive into your Capstone Project, focusing on technical documentation, security assessments, and remediation plans. You'll refine your project through mock presentations and revisions. The phase wraps up with your final capstone presentation, marking the completion of the program.

Important Topics

- Technical documentation & security assessments
- Security incident handling & response strategies
- Real-world cybersecurity projects
- CySA+ exam prep & practice

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Your day at SPICED

8:30 am — Campus opens for you to come by and start your project work

10:00 am — Morning lecture followed by supervised project work

12:00 pm — Lunch

1:30 pm — Afternoon lecture followed by supervised project work

6:30 pm — Campus closes for the day. Time to go home and get some well deserved rest! 😴

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Payment options (ctd.)

Bildungsgutschein

If you're registered as unemployed (or soon to be) in Germany, you could be eligible to have all your costs covered with a Bildungsgutschein (training voucher).

Heads up, the more motivated you are, the higher the chances are to get one!

For more information on this option, check our page dedicated to financing your bootcamp with a Bildungsgutschein right here.

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"Most importantly, Spiced feels like a family. When you're working 8–10 hours a day surrounded by the same people, it's good to have a supportive work environment and atmosphere."

Olof Reimegard
now Full Stack Web Developer @ Zaplox

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Where practical meets personal

Our Career Services

Through our Learning Management System (LMS), you'll receive career tips and support from the preparation of application documents to job search strategy and personal branding - all from a single source!
Our expert Career Coaches help you excel at real-world interviews, and build your communication skills, critical thinking, teamwork and empathy. 💪

- **Job interview workshops**
- **Strategies for changing jobs and career paths**
- **Salary negotiations**
- **Career Cupid: networking event with companies,**
- **Alumni "Ask me anything" sessions**
- **Recruiter "Ask me anything" sessions**
- **Expert panels and Q&A**
- **Career roadmap for international students**

Phase 1

Identifying your skills

Phase 2

Understanding the Job Market

Phase 3

Tips for starting your new job

Phase 4

Networking

Career Opportunities

| Cloud Engineer | Cloud Consultant |

| Cloud Solutions Architect | AWS DevOps Engineer |

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Community

Community rules at SPICED - after all, there's more to life than studying! For those in Berlin, we hold regular get-togethers with pizza and drinks in our beautiful campus so you can share ideas, grab a coffee, and generally unwind among fellow hungry minds.

We pride ourselves on our international culture and provide a supportive environment to both students and staff. If you need help with your code or a chat, we try to make sure there's always someone on hand for a quick Zoom, or a sit down.

Oh, and Friday drinks can be the stuff of *legend*.

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Our Campus

Welcome to Kreuzberg. Home to SO36 punks, döners and the loveable rogues of Spiced-World. Just at our doorstep you'll find a world of cuisine, upscale cocktail joints, downtrodden kneipes, and cafes ranging from artisanal to hole-in-the-wall.

We love hosting tech events and bringing our ever-growing network to campus and online for workshops and talks. Even after you've graduated, there's an open invite to our events - once a Spicedling, always a Spicedling.

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Thank you

For more information, please get in touch
info@spiced-academy.com