

# Cybersecurity Core Technical

Building Rugged Software for Connected Devices



## Immersive Program

### Duration

400 hours  
20 weekends

### Schedule

- ◆ **Weekends:** Sat-Sun, 8:00 AM – 6:00 PM CST

### Certifications

- ◆ Microsoft Azure Cloud Administrator (AZ-104)
- ◆ Microsoft Azure DevOps Administrator (AZ-400)
- ◆ Microsoft Azure IoT Developer (AZ-220)

### Contact Us

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The Internet of Things (IoT) refers to the rapidly growing network of connected objects that can collect and exchange data using embedded sensors. IoT involves adding internet connectivity to a system of interrelated computing devices, mechanical and digital machines, objects, animals and/or people. Business Insider Intelligence forecasts that there will be more than 64 billion IoT devices installed around the world by 2026. Thermostats, cars, lights, refrigerators, and other appliances can all be connected to the IoT. IoT security is the technology area concerned with safeguarding connected devices and networks on the Internet of Things.

This program will take you from the concept of IoT to building things that make up the Internet of Things, including how those components are securely connected together, how they communicate, and how they add value to the data generated. The fundamental aspect of IoT security is data security—persisting data on the IoT device, say within a drone, whereby the data is then transmitted to a centralized server, such as a database on a public cloud. Protecting data is everything.

At the end of the program, you will be able to confidently demonstrate how IoT can optimize processes and improve efficiencies for small to large enterprise businesses. You will also be able to confidently apply various IoT security methods depending on a specific IoT application and its place in the IoT ecosystem.

The program follows a Foundations, Acceleration, and Transition (FAT) Structure. A minimum of three modules with 120 hours each make up the learning framework.

### Course Structure

Modules	Hours
<b>Secure Infrastructure</b>	<b>160</b>
Cloud Technology Fundamentals & Preparation for Azure Cloud Administrator Certification	
<b>Secure DevOps</b>	<b>120</b>
Modern Application Testing & Preparation for Azure DevOps Certification	
<b>Secure IoT</b>	<b>120</b>
End-to-end IoT Solution Deployment on Azure & Preparation for CertNexus Certified IoT Security Practitioner	

## Cheshire Pathways

The program is aligned with the National Initiative for Cybersecurity Education (NICE) Framework. The NICE Framework provides a set of building blocks for describing the tasks, knowledge, and skills that are needed to perform cybersecurity work by individuals and teams. Through these building blocks, the NICE Framework enables organizations to develop their workforces to perform cybersecurity work. It also helps learners explore cybersecurity work and engages them in appropriate learning activities to develop their knowledge and skills.

## Support Services

- Learn how to design and tailor your resume, establish your LinkedIn profile using best in line industry tips and tricks, prep for interviews with one-on-one coaching sessions, and expand your professional network!
- Engage with peers and instructors in Study Group Channels on Microsoft Teams.
- Gain access to exam vouchers up to 180 days after program completion and up to 1 year to use them.



Doctors from outside the isolation area are using a robot to communicate with a COVID-19 patient.

## IoT Security Jobs

The hands-on learning alongside certification prepwork and the unbeatable support you will receive from instructors, staff, and peers builds confidence to apply for jobs with:

### IoT Manufacturers:

From product makers to semiconductor companies who concentrate on building security from the start, making hardware tamper-proof, building secure hardware, ensuring secure upgrades, providing firmware updates/patches and performing dynamic testing.

### Solution Developers:

Secure software development and secure integration.

### System Deployers:

For those deploying IoT systems, hardware security and authentication are critical measures.

### Operators:

Keeping systems up to date, mitigating malware, auditing, protecting infrastructure, and safeguarding credentials.

Drones aren't the only modern technology that's being used to keep humans safe while fighting the spread of the new coronavirus. Back in January, America's first known case of COVID-19 was "treated largely by a robot". The stethoscope-equipped robot helped take the vital signs of a man in his 30s, according to their report—although there were also nurses in the room to move the robot around.

At Circolo Hospital in Varese, a hard-hit city in northern Italy, they were using six "robot nurses". It's like having another nurse without problems related to infection," explained the hospital's Director of Intensive Care, an advantage which helped them conserve face masks. The robots provide remote communication for patients and doctors and can also monitor equipment in the room — without ever needing to sleep.

## Various Funding Options available for you to start this program today

### Start Today With \$0 Upfront

#### Income Share Agreement

Pay tuition back in manageable monthly installments after you land a job. *Not currently available to students outside the U.S.*

#### GI Bill®

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. government website. *For U.S. veterans, military spouses, and children of veterans.*

#### Scholarships

Apply for programs, including our Women in Technology scholarship, that provide access to underrepresented communities in tech.

#### Loans

Apply for a loan from one of our high-quality lenders, Skills Fund Financing, for as low as \$450 a month.

#### Installments

Divide tuition into three payments at \$4,333 per installment. *Currently only available in select U.S. markets.*