



for a  
better  
tomorrow

MAYOR OF LONDON

# Skills Bootcamp in **Cyber Security** Learner Journey.

## Week 1

### Foundations of cyber security

- Learn core cyber security concepts
- Consequences and implications
- Core terminology
- Learn what Good/Bad actors are and how they impact cyber security

## Week 2

### Threats and vulnerabilities

- Threats, exploits and risks
- Key sectors that need protection
- Threat intelligence lifecycle
- Open-source intelligence and data reliability
- Threat model and analysis and evaluation

## Week 3

### Malicious software

- Types of malicious software and how they work, motives behind them, human factors involved
- Social engineering

## Week 4

### Detection and response

- Learn about creating and incident postmortem
- Incident response lifecycle
- Learn about ISO standards

## Week 5

### Testing and controls

- Learn about different types of cyber security testing
- Learn about different cyber security frameworks
- Learn how to apply cyber security controls

## Week 6

### Web application security

- Common attacks against web applications
- Broken access controls
- Identification and authentication failure
- Cryptography failures



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### Week 7

#### Operating system security

- C.I.A
- Authentication and passwords
- File permissions
- Malicious programmes

### Week 8

#### Network security

- Cyber Kill Chain
- Intrusion Prevention System (IPS)
- Virtual Private Network (VPN)
- Intrusion Detection System (IDS)

### Week 9

#### Digital forensics

- Digital forensics process
- Forensic Artifacts
- Public-sector investigations
- Private-sector investigations

### Week 10

#### Security operations center (SOC)

- Purpose of SOC
- SOC Services

### Week 11 & 12

#### Project week and employability

- A cyber security project to include different cyber security protocols
- CV support
- Interview techniques
- Cyber careers

#### Accredited qualifications:

- NCFE Level 3 Certificate in Cyber Security

