




CYBER SECURITY AND ETHICAL HACKING

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This training provides skills required for first line of security support. You will learn how to contribute to the delivery of a security culture across an organisation, understanding vulnerability and threats and supporting the development of an organisation's cybersecurity maturity. 1 Goal Analytics has collaborated with industry to create a program that trains candidates specifically for the roles such as Cyber Security Analyst, Information Security Manager, Cyber Security architect, Network Security Engineer, IT Security Consultant, Cryptologist, and Data Privacy Officer.

PROGRAM FEATURES

The programme runs for a period of 3 months, 4 weeks for the training, then next is the Capstone Project phase. Candidates can request a mentor when they have a confirmed interview for Cybersecurity jobs .



ON COMPLETING THIS PROGRAM, YOU WILL:

- » Develop the expertise to protect the public and organisations from cyber threats.
- » Boost your career prospects by learning to navigate the intricacies of data protection laws, cryptology, IT security and network forensics.
- » Fit learning around your life, wherever you are in the world - choose from full or part-time study and start any day you choose.
- » Start studying today via our innovative online learning platform with everything you need to hand - from digital learning resources to personal and academic support.

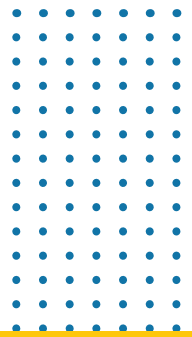


YOU WILL ALSO DEVELOP THE FOLLOWING SOFT SKILLS:

- » Strategic decision-making for assessing and managing cyber roles
- » Strong communication for conveying complex security concepts in understandable terms
- » Adaptability to the rapid transformation in the cyber security landscape
- » Ethical and responsible handling of sensitive data.



WEEK 1



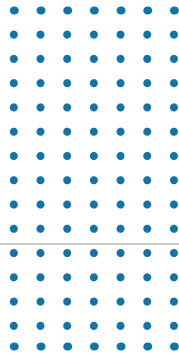
INTRODUCTION TO CYBERSECURITY/ETHICAL HACKING

- Cybersecurity VS Information Security
- Fundamental Security Architectures
- Cybersecurity Key Concepts
- Pentesting VS Ethical hacking
- Cybersecurity Career
- Fundamental Principles of Information Systems

● Practice Virtual Machine Installation



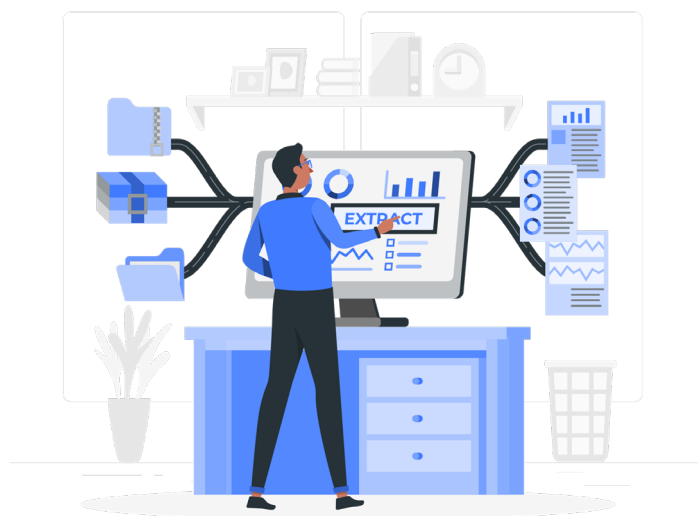
WEEK 2



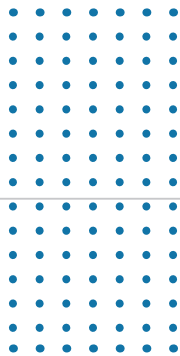
NETWORKING

- OSI Model and TCP/IP Stack
- Network protocols
- Network devices
- IP addressing and subnetting

- Practice using Wireshark for Packet sniffing



WEEK 3

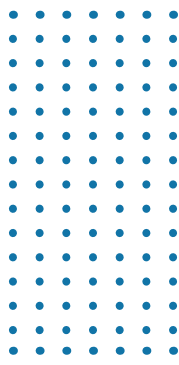


THREAT INTELLIGENCE

- Sources of threat intelligence (OSINT)
 - Indicators of Compromise (IoCs)
 - MITRE ATT&CK Framework
 - Threat Modeling
- Practice using OpneCTI & Shodan for information gathering



WEEK 4



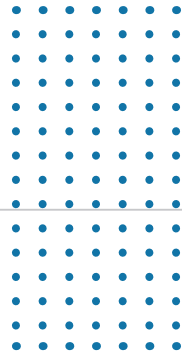
PENTESTING

- Phases of penetration testing
- Common tools and methodologies (OWASP)
- Types of pentesting (black box, white box, gray box)
- Report Writing

● Practice Reconnaissance and Exploitation using Nmap and Metasploit



WEEK 5



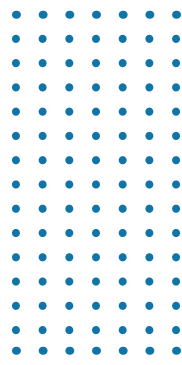
VULNERABILITY MANAGEMENT

- Understanding vulnerabilities, exploits, and zero-days
- Types of vulnerabilities (software, hardware, network)
- CVSS (Common Vulnerability Scoring System)
- Patch management process

- Practice conducting a vulnerability scan with Nessus

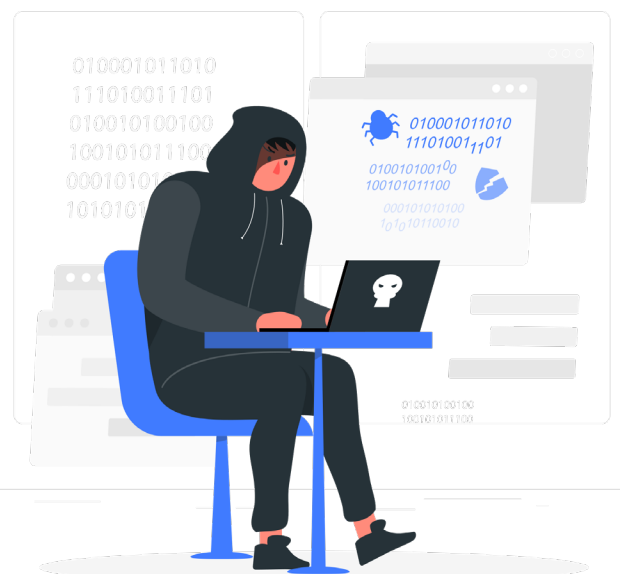


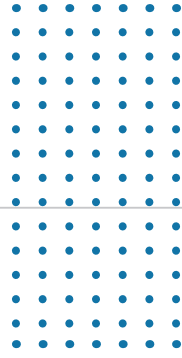
WEEK 6



RISK ASSESSMENT

- Understanding risk in cybersecurity (risk = threat x vulnerability)
 - Types of risks (operational, reputational, financial)
 - Risk treatment options (mitigate, accept, transfer, avoid)
 - Asset Management
- Practice conducting a risk assessment for a given organization





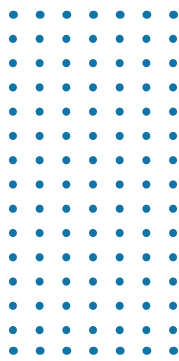
COMPLIANCE FRAMEWORKS

- Common compliance frameworks (ISO 27001, NIST, PCI DSS, GDPR)
- The importance of compliance in cybersecurity
- Auditing for compliance
- Gap Analysis

- Practice mapping a small business to ISO 27001 controls



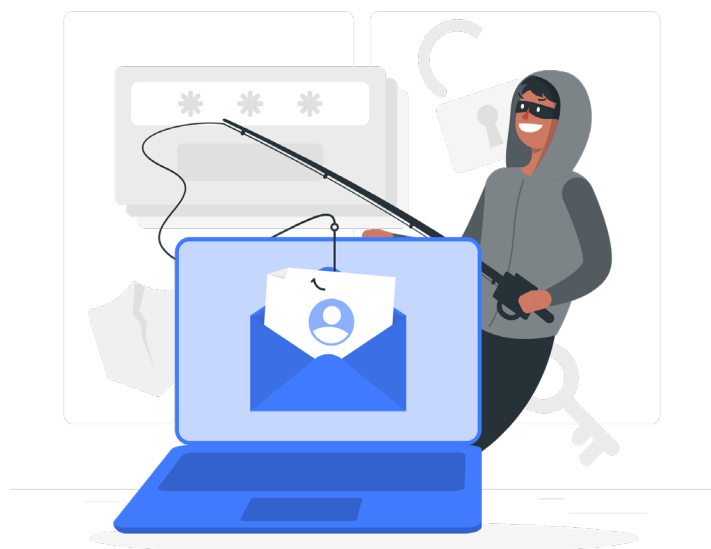
WEEK 8



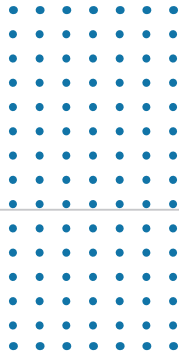
SECURITY AWARENESS TRAINING - PHISHING

- Types of phishing attacks (spear phishing, whaling, smishing)
- Social engineering principles
- Reporting phishing incidents
- How phishing impacts organizations

○ Conducting a phishing campaign simulation

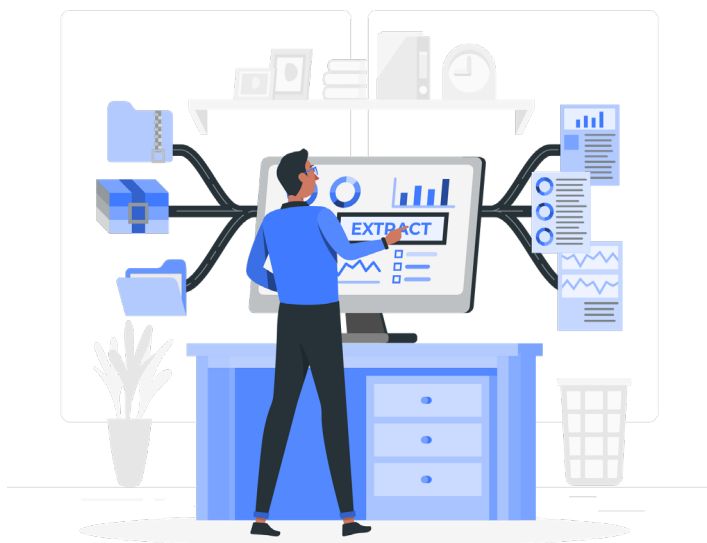


WEEK 9

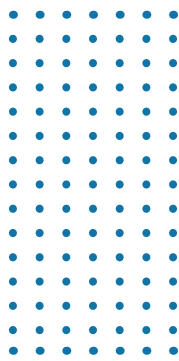


SECURITY OPERATIONS

- SOC roles and responsibilities
 - Common SOC processes (Monitoring, Detection, Response)
 - Tools used in SOC (SIEM, IDS/IPS)
 - Monitoring and analyzing real-time security alerts
- Practice setting up and using a SIEM tool (Splunk or Wazuh)



WEEK 10



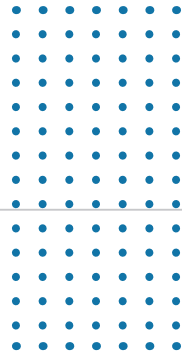
INCIDENT RESPONSE

- Incident response phases (Preparation, Detection, Containment)
- Analysing a phishing mail
- Post-incident activities and lessons learned

- Practice using a simulated incident response tabletop exercise



WEEK 11



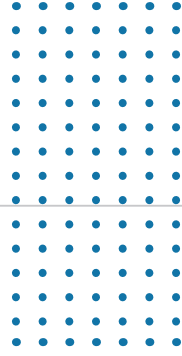
CLOUD SECURITY

- Cloud service models (IaaS, PaaS, SaaS)
- Shared Responsibility Model
- Cloud-specific security concerns (Misconfigurations, Data Loss)

- Practice setting up secure virtual environments

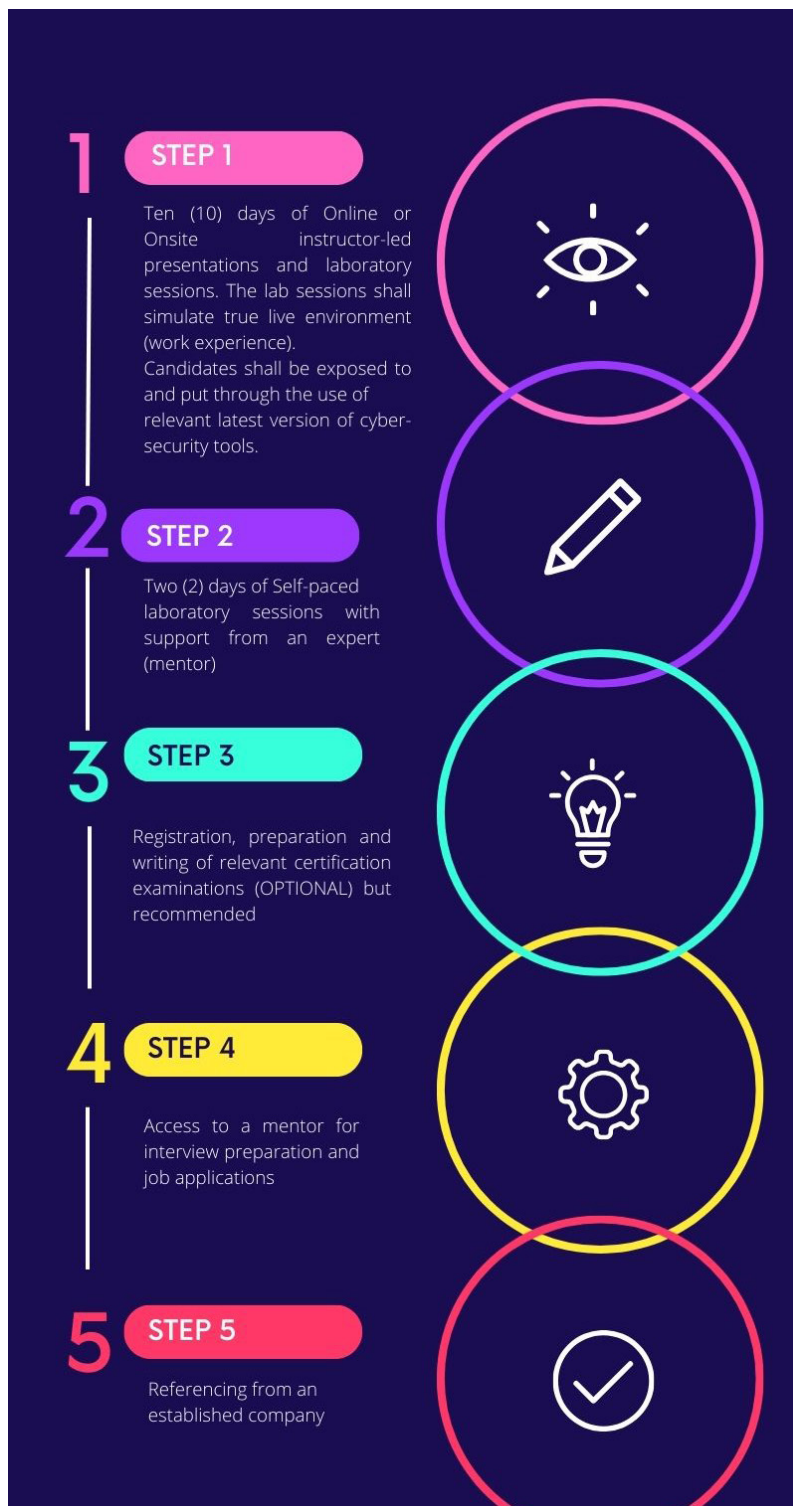


WEEK 12



SUMMARY CLASS

ROAD MAP



FAQ



1.

Are your Capstone Projects real?

All our capstone projects are real, innovative and within IT and Digital sectors

2.

What type of projects will I be working on?

You will be working on Data-Driven projects and will be using Power Bi to extract and Visualise Business Data, Reporting and Clean Data and Preprocessing. Carrying out Market and Competitive Analysis, and Customer Segmentation projects.

3.

Do I need certification to secure a job?

Certification will give you an edge; however practical experience is what is critical in securing a good job.

4.

I work full time, how flexible is your program?

We are highly flexible; trainings are done in evening and weekends. We will always work within your availability.

5.

Do you offer Certification?

We collaborate with professionally bodies and will recommend you to the best certification bodies.

HANDS-ON

PROJECT/PORTFOLIO

HANDS-ON
PROJECT/PORTFOLIO

- Project Planning - Project requirements and Guidelines, Team Formation and Project Planning
- Project development - Hands-on Development and Implementation
- Guidance and Troubleshooting
- Project Presentation and Review - project presentations, feedback and evaluation, course review.

PRACTICAL WORK EXPERIENCE

- How to Interpret, Design and Implement Enterprise Network Architecture.
- How to Audit Infrastructure and Technological Services?
- Footing, gathering of people's information using www.piple.com
- Data Gathering from website using web extractor
- Collecting information about a target through email analysis
- Installation, Configuration and Application of Nessus
- How to recover compromised Email account, remediation/prevention procedure
- How to recover windows password?
- How to recover deleted files?
- How to install Kali Linux
- How to Hack Facebook using KALI?
- How to clone/mirror a website using HTTP-Track?
- How to hack WhatsApp Group Admin Account?
- How to know if you have been hacked?

MEET THE INSTRUCTORS

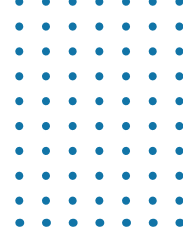


AFRANE KYERE-MENSAH
CYBERSECURITY & ETHICAL HACKING

Afrane is a dedicated cybersecurity professional with over six years of experience in cyber and information security. He has a background in Vulnerability Management, Threat Intelligence, Security Operations, Cloud Security (Azure), and Governance, Risk, and Compliance. He is also proficient in security frameworks such as PCI-DSS, ISO 27001, GDPR, TSA, and NIST. Afrane has passion for helping others achieve their career goals which led him to mentor, volunteer on panels, organize webinars, as well as guiding aspiring professionals.

He has an excellent and solid foundation, both in theoretical and practical aspects of cybersecurity, and has successfully trained numerous students to advance and achieve their career goals. Afrane is currently employed as a Governance, Risk, and Compliance Lead at Cuckoo Fibre. His career goal is to innovate security solutions to enhance business value and inspire others to reach their full potential.

His Teaching Technique incorporate hands-on learning experience, critical thinking, and a deep understanding of cybersecurity principles. He prioritizes ethics and aims to inspire enthusiasts to pursue careers that contribute positively to the field. He fosters a collaborative learning environment, encouraging curiosity and inquiry, and stays current with industry trends to keep his teaching relevant.

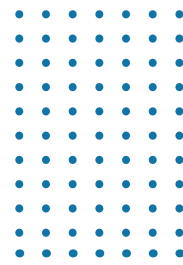


EDUCATION QUALIFICATIONS

- MSc in Cybersecurity Management Certifications;
- ISACA Certified in Risk and Information Systems Control (CRISC);
- CompTIA Network; CompTIA Security;
- Microsoft Azure Fundamentals (AZ-900);
- ISC2 Certified in Cybersecurity (CC);
- Oracle Cloud Infrastructure (OCI) Foundations Associate.

EXPERTISE AND SKILLS

- Cybersecurity and Penetration Testing, Information Security;
- Cloud Security (Azure);
- Governance, Risk, and Compliance (GRC).



**CHIDUBEM VALENTINE
ENWELU**
**CYBERSECURITY & ETHICAL
HACKING**

Chidubem Valentine Enwelu, is an IT professional with a strong focus on cybersecurity and ethical hacking. He holds a First-Class Honours degree in Networks and Cyber Security from the University of Sunderland, where he developed a deep understanding of both the theoretical and practical aspects of the field. Chidubem expertise spans risk analysis, threat detection, security control implementation, and the application of key cybersecurity frameworks such as PCI, ISO27001, GDPR, and SOX. Currently, he works as an online IT tutor, leading courses in Cybersecurity, Ethical Hacking, as well as Frontend and Backend

Development. His teaching philosophy is rooted in hands-on learning and realworld applications, ensuring students gain practical skills essential for protecting digital systems and building secure, scalable applications.

He also obtained Certified Ethical Hacker (CEH) certification, which underpins his ability to teach advanced cybersecurity techniques and tools. Chidubem is passionate about empowering others in this critical field, and regularly participate in cybersecurity competitions like Capture The Flag (CTF) in order to keep abreast of the latest trends. His goal is to inspire and prepare the next generation of IT professionals by equipping them with the expertise needed to excel in today's rapidly evolving technological landscape

EDUCATION QUALIFICATIONS

First-Class Honours degree in Networks and Cyber Security from the University of Sunderland.

COMPANY OVERVIEW

At 1 Goal Analytics, we are committed in fostering your career goals into a reality. Our passion is to assist you unlock that disruptive thinking and acquire excellent skills needed for high-paying job and succeed.



OUR MISSION

Our mission is to be impactful through high-quality, well-innovative contents with hands-on practice and training that are internationally relevant in a dynamic tech-market

WHERE OUR STUDENTS WORK



OUR PARTNERS





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