Cyber Security & Forensics Course

Course Description
Cyber security refers to securing computer systems and networks in order to prevent computer crimes while the field of digital forensics refers to the detection of computer crimes once they occur.

Digital Forensics and Cyber Security Course is designed to meet the growing needs of preventing and detecting computer crimes in our digital age.

Course Objectives
a. To teach practical, hands-on, applied knowledge that can equip individuals on computer security techniques.
b. To teach the latest applications and tools used in the IT security field.
c. To provide the knowledge that will help user to meeting certification requirements in the IT security field.

Course Content
This course consist of the following topics

1. Coding Security
   Learning objective: To examines security architecture elements within modern object-oriented programming languages and create the framework for securing programming.

2. Vulnerability Analysis & Control
   Learning objective: To address hands-on ethical hacking, penetration testing, detection of malicious probes and their prevention.

3. Cyber Security Management
   Learning objective: To examine the topics in the management of information technology security including access control systems and methodology, business continuity and disaster recovery planning, legal issues in information system security, ethics, physical security etc using current standards models.

4. Database Security
   Learning objective: To engage trainee in an in-depth examination of topics in data security including security considerations in applications & systems development, encryption methods, cryptography law and security architecture & models.

5. Cyber Security Technologies
   Learning objective: To prepares Trainee for a role as a network security administrator and analyst.

6. Topics in Information Security Compliance
   Learning objective: To examine topics insecurity compliance, including HIPAA, GLBA, NERC, SOX, PCI and compliance issues related to these requirements.

7. Cyber Forensics
   Learning objective: To address methods to properly conduct a computer and/or network forensics investigation including digital evidence collection and evaluation and legal issues involved in network forensics.

   Learning objective: To Prepare Trainee for a role as a networks security analyst and developer and give an individual experience in developing a production of security systems.

9. Information Security – Risk Analysis
   Learning objective: To examine the security methodologies which are used in the assessment of organization risks.

10. Stenography
    Learning objective: To study both digital stenography and digital steganalysis (the science of discovering the existence of and extracting the covert information).
11. Operating System Security
Learning objective: To address theoretical concepts of operating system security, security architectures of current operating systems, and details of security implementation using best practices and to configure operating systems using industry security standards.

12. Topics in Information Security
Learning objective: To enable trainee to prepare an incident response, disaster recovery, business continuity, or crisis management plan for a real-world organization such as business or a government body or agency.

Target group:
The course targets individuals who are interested in learning about cyber security including:
- Information Security Professionals.
- Information Technology Professionals (System Administrators, Network Administrators, Application Programmers).
- Process Automation – Control Systems and IT Engineers.
- Ethical Hackers and Cyber Security Professionals.
- Students and recent graduates

Training Mode
The course will be offered through blended mode F2F mode and online mode depending on course content and topic. Teaching mode will include 30% theory and 70% practices using computer laboratories.

Course Duration
Three (3) months

Course Fee
Course fee: Tshs 350,000

How to Register
Click here to register for Course
To register please contact us through the following details

Email: richard.laizer@out.ac.tz
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Telephone: 0687063988/0783992020