

**CONTROL ICT SECURITY THREATS**

**COURSE OUTLINE**

**UNIT CODE: IT/OS/ICT/CR/3/6**

**UNIT DESCRIPTION**

This unit covers the competencies required to provide ICT security. They include

identification of security threats, installation of security control measures, implementation of

security measures, testing of system vulnerability and monitoring of the security system.

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| **Week** | **Topic** | **Sub-topic** |
| **1.** | Identify security threats | 1.1 Security threats are identified based on the  vulnerability of the system.  1.2 Security threats are categorised according to the  risk impact |
| **2.** |  | 1.3 Appropriate Security measures are selected as per  the Security threats |
| **3.** | **CAT 1** | |
| **4.** | Establish and Install security control measures | 2.1 ICT Security policy is implemented as per the  Kenya security act 2018  2.2 Security control measures are identified and  categorized as per the laws governing security in  ICT. |
| **5.** |  | 2.3 Evaluation of Security control measures is done as  per the ICT Security policy  2.4 Installation of Security control measures is done as  per the ICT security policy |
| **6.** | **CAT 2** | |
| **7.** | Deploy Security Measures | 3.1 Physical control measures are implemented  according to the ICT security policy.  3.2 Logical security control measures are implemented  according to the ICT security policy.  3.3 ICT Security policy is implemented According to  the Kenya security Act 2018. |
| **8.** | Test system vulnerability | 4.1 Schedule system testing plan is developed  4.2 Vulnerable levels of the system are identified.  4.3 Security ethical penetration is done as per the ICT  security policy.  4.4 Report on system vulnerability is generated  4.5 Corrective action is taken based on the System  Vulnerability report |
| **9.** | Monitor security system | 5.1 Performance of the security systems is evaluated.  5.2 Reports on security system are generated  5.3 Security systems are updated or overhauled based  on the security system report. |
| **10.** | **CAT 3** | |