

061205T4CYB

CYBER SECURITY LEVEL 5

SEC/OS/CS/CR/04/5/A

Secure Software Application

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

Time: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You have been provided with the following resources for the practical tasks:
 - *A computer system running on Windows 8/10/11 Operating System*
 - *Metasploit or any other vulnerability scanning tool already installed on windows*
 - *VirtualBox or VMware executable file*
 - *Kali Linux ISO file for VirtualBox/VMware*
 - *Internet connection*
 - *Institute website url*

TASK 1: Installation of Virtual Machine

1. Perform installation of the Virtual Box/VMware on the computer provided.

TASK 2: Operating System Installation

1. Perform installation of Kali Linux on the VirtualBox/VMware installed in task 1

TASK 3: Update Operating System

1. Perform update of the installed Kali Linux operating system.

TASK 4: Scan Institutional website for vulnerabilities

Your institution website hosts a variety of services that it offers to its customers. The Systems administrator noticed an increase in suspicious login attempts and minor system slowdowns. Concerned about potential vulnerabilities, they decide to engage you to conduct a comprehensive vulnerability scan to assess the security of website.

Perform a scan of the institution website for vulnerabilities. Use the provided institute **website url** and **metasploit** or any other vulnerability scanning tool