

061206T4CYB

CYBER SECURITY TECHNICIAN LEVEL 6

SEC/OS/CS/CR/08/6/A

INSTALL CYBER SECURITY SYSTEM

Nov. / Dec. 2023



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

WRITTEN ASSESSMENT

Time : 3 hours

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**.
2. You are provided with a separate answer booklet.
3. Marks for each question are as indicated.
4. Do not write on the question paper.

This paper consists of 3 printed pages

**Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing**

SECTION A: (40 Marks)

Answer ALL questions in this section.

- 1.** Define the term patch as used in cyber security systems. **(2marks)**
- 2.** Explain THREE main pillars of information security triad. **(6 marks)**
- 3.** State THREE main types of threats that need to be considered when designing software that is secure against cyberattacks. **(3 marks)**
- 4.** The only way to be sure your network is secure is to actually check for vulnerabilities and flaws. List any FOUR tools that can help you in doing so. **(4 marks)**
- 5.** Define the term Information Technology policy. **(2 marks)**
- 6.** Explain THREE main technologies utilized for securing information system. **(6 marks)**
- 7.** Differentiate between debugging and testing as applied in cyber security. **(2 marks)**
- 8.** Define the following terms.
 - a) Ethical hacking **(2 marks)**
 - b) Cyber-attack **(2 marks)**
- 9.** Discuss TWO types of testing on a cyber security system. **(4 marks)**
- 10.** Explain TWO benefits of Cyber security monitoring. **(4 marks)**
- 11.** Outline THREE factors to consider during procurement of a cyber security management system. **(3 marks)**