Course Aim
To introduce the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and services.

Short Title
Version 3
Effective From: February 2016
NQF Level: 8
Student Contact hrs: 60
Self-directed hrs: 60
Other directed hrs: 30
Total learning hrs: 150

Faculty: EDICT
Credits: 15
Pre-requisites: IT7003 (ITB6003)
Co-requisites: none
Anti-requisites: none

Learning Outcomes
On successful completion of this course, students will be able to:

1. Describe the security threats facing modern network infrastructures.
2. Secure network device access and implement AAA on network devices.
3. Analyse threats and mitigate attacks to networks using various techniques.
4. Design and implement secure network management and reporting, and administer effective security policies.
5. Design and implement systems using the Cisco IOS firewall and IPS feature sets.
6. Design and implement site-to-site IPSec VPNs.

NQF Sub-strand
Theoretical Understanding
Practical Application of knowledge
Practical Application of knowledge
Generic, Problem Solving and Analytical Skills
Practical Application of knowledge
Practical Application of knowledge