## Competency Standards for National Skill Certificate -5 in Penetration Testing in ICT Sector

## **Course Structure**

SL	Unit Code and Title Level					
The Generic Competencies						
The Sector Specific Competencies						
The	Occupation Speci	fic Competencies				
1	OUCyS014L5V1	Apply Python Programming	5	50		
2	OUCyS005L5V1	Apply Mobile Application Security	5	40		
3	OUCyS019L5V1	Apply Social Engineering	5	15		
4	OUCyS006L5V1	Apply advance Web Application Security	5	50		
5	OUCyS012L5V1	Apply Network security Assessment	5	40		
6	OUCyS015L5V1	Apply Cyber Security Risk Assessment	5	35		
7	OUCyS016L5V1	Interpret Cryptography	5	30		
8	OUCyS021L5V1	Interpret IoT Concepts	5	20		
9	OUCyS010L5V1	Perform Pen Testing 5		60		
10	OUCyS0023L5V1	Interpret IT Security Auditing	5	30		
Total Nominal Learning Hours						

## **The Occupation Specific Competencies**

Code	Unit of Competency	Elements of Competency	Duration (Hours)
OUCyS014L5V1	Apply Python Programming	Interpret python programming structure     Practice with sequential structure     Practice with decisions making structure     Practice with Loop structure     Apply Functions and scripts     Maintain Error Handling	50
OUCyS005L5V1	Apply Mobile Application Security	Interpret Mobile Application     Security     Perform Mobile application     penetration testing     Perform web application     countermeasures	40
OUCyS019L5V1	Apply Social Engineering	Interpret the social engineering concepts     Identify the social engineering threats     Identify Social engineering tools     Analyze the social engineering attacks	15
OUCyS006L5V1	Apply advance Web Application Security	Perform SQL injection     Interpret Misconfiguration & data expose     Perform XSS & CSRF     Apply access control	50
OUCyS012L5V1	Apply Network security Assessment	Interpret Network security concepts.     Implement Network Security     Assess Network security	40
OUCyS015L5V1	Apply Cyber Security Risk Assessment	Interpret Cyber Security     Risk Assessment     Assess IT Risk     Analyze Risk performance     Prepare Risk Assessment     Report	35
OUCyS016L5V1	Interpret Cryptography	Interpret Security Service goals     Classify classic Encryption technique     Categorize PKI component     Interpret Digital Certification workflow     Interpret cryptography algorithm     Perform Steganography	30

OUCyS021L5V1	Interpret IoT Concepts	Interpret IOT concepts and IOT Standards     Interpret IOT Applications     Identify Challenges in IOT implementation	20
OUCyS010L5V1	Perform Pen Testing	Identify Penetration Testing     Tools     Perform Penetration     Testing     Prepare VAPT report	60
OUCyS0023L5V1	Interpret IT Security Auditing	Interpret IT Security Audit     Interpret Auditing     Information System     Use of Information Systems     Operations Maintenance     and Service Management     Interpreted Information     Systems Acquisition,     Development and     Implementation     Interpret the protection of     information assets     Apply the Governance and     Management of IT audit	30