

**Competency Standards for National Skill Certificate –4 in  
Network and System Security (Cyber Security) in ICT Sector**

**Course Structure**

SL	Unit Code and Title		UoC Level	Nominal Duration (Hours)
<b>The Generic Competencies</b>				<b>30</b>
1	GU002L2V1	Apply Occupational Safety and Health (OSH) practices in the workplace	1	15
2	GU005L3V1	Carry out workplace interaction in English	3	15
<b>The Sector Specific Competencies</b>				<b>70</b>
1	SUICT001L2V1	Operate a Personal Computer and Use Application programs	2	15
2	SUICT002L2V1	Operate office application software	2	25
3	SUICT003L3V1	Access Information using Internet and electronic mail	3	15
4	SUICT004L3V1	Comply to Ethical Standards in IT Workplace	3	15
<b>The Occupation Specific Competencies</b>				<b>155</b>
1	OUCyS001L4V1	Interpret Information Security Concepts	4	20
2	OUCyS002L4V1	Apply Operating Systems Administration Concepts	4	25
3	OUCyS003L4V1	Analyze malicious code	4	30
4	OUCyS009L5V1	Apply Vulnerability Assessment	4	60
5	OUCyS008L4V1	Apply Information Security Systems Bypass	4	20
<b>Total Nominal Learning Hours</b>				<b>255</b>

## Units & Elements at a glance

### Generic Competencies

Code	Unit of Competency	Elements of Competency	Nominal Hours
GU002L2V1	Apply Occupational Safety and Health (OSH) Practices in the Workplace	<ol style="list-style-type: none"><li>1. Identify OSH policies and procedures</li><li>2. Follow OSH procedures</li><li>3. Report hazards and risks</li><li>4. Respond to emergencies</li><li>5. Maintain personal well-being</li></ol>	15
GU005L3V1	Carry out workplace interaction in English	<ol style="list-style-type: none"><li>1. Interpret workplace communication and etiquette</li><li>2. Read and Understand Workplace Documents</li><li>3. Participate in workplace meetings and discussions</li><li>4. Practice professional ethics at workplace</li></ol>	15

## Sector Specific Competencies

Code	Unit of Competency	1. Elements of Competency	Nominal Hours
SUICT001L2V1	Operate a Personal Computer and Use Application programs	<ol style="list-style-type: none"> <li>1. Start computer</li> <li>2. Access basic system information</li> <li>3. Work with files and folders</li> <li>4. Use application programs</li> <li>5. Print documents</li> <li>6. Shut down computer</li> </ol>	15
SUICT002L2V1	Operate office application software	<ol style="list-style-type: none"> <li>1. Operate computer</li> <li>2. Install application software</li> <li>3. Use word processor to prepare/create documents</li> <li>4. Use spreadsheet to create /prepare worksheets</li> <li>5. Use presentation software to create / prepare presentation</li> <li>6. Print a document</li> </ol>	25
SUICT003L3V1	Access Information using Internet and electronic mail	<ol style="list-style-type: none"> <li>1. Access resources from internet</li> <li>2. Use and manage electronic mail</li> <li>3. Use audio/video tools for information transfer</li> </ol>	15
SUICT004L3V1	Comply to Ethical Standards in IT Workplace	<ol style="list-style-type: none"> <li>1. Uphold the requirements of clients</li> <li>2. Deliver quality products and services</li> <li>3. Maintain professionalism at workplace</li> <li>4. Maintain workplace code of conduct.</li> </ol>	15



## The Occupation Specific Competencies

Code	Unit of Competency	Elements of Competency	Duration (Hours)
OUCyS001L4V1	Interpret Information Security Concepts	<ol style="list-style-type: none"> <li>1. Interpret Information Security System</li> <li>2. Interpret Hacking Techniques</li> <li>3. Identify types of Attacks</li> <li>4. Identify types of Attacks</li> <li>5. Interpret Cyber Law</li> </ol>	20
OUCyS002L4V1	Apply Operating Systems Administration Concepts	<ol style="list-style-type: none"> <li>1. Install Virtual machine</li> <li>2. Install OS</li> <li>3. Perform Hacking using hacking tool</li> </ol>	25
OUCyS003L4V1	Analyze malicious code	<ol style="list-style-type: none"> <li>1. Interpret Malicious Code</li> <li>2. Identify malwares</li> <li>3. Analyze Malicious Code using Tools</li> <li>4. Countermeasures for Malware infections</li> </ol>	30
OUCyS009L5V1	Apply Vulnerability Assessment	<ol style="list-style-type: none"> <li>1. Interpret vulnerability concept</li> <li>2. Use Vulnerability Assessment tools</li> <li>3. Prepare VA Report</li> </ol>	60
OUCyS008L4V1	Apply Information Security Systems Bypass	<ol style="list-style-type: none"> <li>1. Interpret Information Security Systems Bypass</li> <li>2. Analyze Security Solutions to identify Vulnerabilities</li> <li>3. Use Tools to Bypass the Security Solutions</li> </ol>	20