

# ADMINISTRATION OF CYBER SECURITY SYSTEM

**UNIT CODE:** SEC/CU/CU/CR/06/5/A

## Relationship to Occupational Standards

This unit addresses the unit of competency: Administer Cyber security system

**Duration of Unit:** 130 hours

## Unit Description

This unit covers the competencies required to administer Cyber security system. It involves identifying and analysing information to be protected, establishing systems to be administered, assessing system compatibility, monitoring system performance, documenting system administration report and establishing a Cyber security backup and restoration plan.

## Summary of Learning Outcomes

1. Identify and analyze information to be protected
2. Establish systems to be administered
3. Assess system's compatibility
4. Monitor system performance
5. Document system administration report
6. Establish a cyber-security back up and restoration plan

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Identify and analyze information to be protected	<ul style="list-style-type: none"><li>• Meaning of terms</li><li>• Establishment of information platforms</li><li>• Determination of information attributes</li><li>• Technology in information storage and analysis</li><li>• Information access control</li><li>• Information analysis</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Written tests</li><li>• Oral questioning</li><li>• Practical tests</li></ul>
2. Establish systems to be administered	<ul style="list-style-type: none"><li>• Meaning of terms</li><li>• Factors to consider in establishment of cyber security system</li><li>• Trends and threats in security system</li><li>• Hardware and software requirement is security system installation</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Written tests</li><li>• Oral questioning</li><li>• Practical tests</li></ul>

3. Asses system's compatibility	<ul style="list-style-type: none"> <li>• Meaning of terms</li> <li>• Compatibility assessment of cyber security system</li> <li>• Factors to consider in assessment of cyber security system compatibility</li> <li>• Components specification in system assessment</li> <li>• Procedures of cyber security system assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Oral questioning</li> <li>• Practical tests</li> <li>• Written tests</li> </ul>
4. Monitor system performance	<ul style="list-style-type: none"> <li>• Meaning of terms</li> <li>• System monitoring process</li> <li>• System simulation</li> <li>• Logs auditing</li> <li>• Patch management</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Oral questioning</li> <li>• Practical tests</li> <li>• Written tests</li> </ul>
5. Document system administration report	<ul style="list-style-type: none"> <li>• Meaning of terms</li> <li>• Report preparation</li> <li>• Report dissemination</li> <li>• Report filing</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questioning</li> <li>• Practical tests</li> </ul>
6. Establish a Cyber security back up and restoration plan	<ul style="list-style-type: none"> <li>• Meaning of terms</li> <li>• Establishment of cyber security back up management system</li> <li>• Factors to consider in establishment of cyber security system <ul style="list-style-type: none"> <li>• Information in cyber security back up and restoration plan</li> </ul> </li> <li>• Backup media and process</li> <li>• Back up testing <ul style="list-style-type: none"> <li>• Validation</li> <li>• Performance</li> <li>• Integrity</li> </ul> </li> <li>• Back up procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questioning</li> <li>• Practical tests</li> </ul>

### Suggested Methods of Instruction

- Demonstration by trainer
- Practice by the trainee
- Field trips
- On-job-training
- Discussions

### Recommended Resources

**Equipment**

- Computers
- Printers
- Cameras
- Phones
- Photocopiers

**Materials and supplies**

- Stationery
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**Reference materials**

- Manufacturers' manuals
- Relevant catalogues
- Tables
- National and international standards