MANAGEMENT OF CYBER SECURITY RISKS

UNIT CODE: SEC/CU/CS/CR/09/6/A

Relationship to Occupational Standards
This unit addresses the unit of competency: Manage Cyber security risks

Duration of Unit: 120 hours

Unit Description
This unit covers the competencies required to manage cyber security risks. It involves establishing risk context, identify risk factors, implementing contingency plans, monitoring and updating risk profiles and reporting of risk profiles.

Summary of Learning Outcomes

1. Establish Risk context
2. Identify Risk factors
3. Implement contingency plans
4. Monitor and update risk profile
5. Report risk profile

Learning Outcomes, Content and Suggested Assessment Methods:

Learning Outcome	Content	Suggested Assessment Methods
1. Establish Risk context	• Meaning of terms • Assets inventory • Assets classification • Types of assets • Security awareness • Organization risk appetite	• Observation • Written tests • Oral questioning • Practical tests
2. Identify Risk factors	• Meaning of terms • Risks factors identification • Factors to consider in risks factors identification • Risk factors assessment • Risk factor analysis • Classification of risk factors • Assessment of information access ability	• Observation • Written tests • Oral questioning • Practical tests

3. Implement contingency plans	• Meaning of terms • Implementation backup strategy • Data loss prevention measures • Contingency plans communication strategy • IDS/IPS implementations • Simulation of contingency plans	• Observation • Written tests • Oral questioning • Practical tests
4. Monitor and update risk profile	• Meaning of terms • Risk calculation • Implementation of security operation centres for threat monitoring • SOC operators training • Risk profile update	• Observation • Written tests • Oral questioning • Practical tests
5. Report risk profile	• Meaning of terms • Report preparation • Report dissemination • Report filing	• Observation • Written tests • Oral questioning • Practical tests

Suggested Methods of Instructions

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

Recommended Resources

Equipment	**Materials and supplies**
• Computers • Printers • Cameras • Phones • Photocopiers	• Stationery
Reference materials • Manufacturers' manuals • Relevant catalogues • Tables	

• National and international standards	