

NATIONAL SKILLS QUALIFICATION

LEVEL 5

TITLE:

Cloud Security Engineer

YEAR: 2024

NATIONAL SKILLS QUALIFICATION

NSQ LEVEL 5 Cloud Security Engineer

General Information

Qualification Purpose

The qualification is to equip individuals with advanced knowledge and technical expertise to design, implement, and manage secure cloud infrastructure, ensuring data protection, compliance, and risk mitigation in cloud environments while preparing them for leadership roles in cybersecurity operations.

Qualification Objectives

The learner should be able to:

- i. Comply with relevant industry standards and organizational policies.
- ii. Assess risks and vulnerabilities specific to cloud environments.
- iii. Manage security architectures for cloud platforms.
- iv. Investigate cloud-based threats, incidents, and mitigation strategies.
- v. Advise stakeholders in cloud security design, governance, and decision-making processes.
- vi. Supervise incident responses for cloud infrastructure, ensuring business continuity and recovery.

Mandatory Units

Unit	Ref.	NOS Title	Credit	Learning	Remark
No	Number		Value	Hours	
Unit	IS/CS/01/L5	Occupational Health and Safety	2	20	Mandatory
01					
Unit	IS/CS/02/L5	Communication in the Work	2	20	Mandatory
02		Environment			-
Unit	IS/CS/03/L5	Teamwork	2	20	Mandatory
03					
Unit	IS/CS/04/L5	Cloud Security Compliance and	6	60	Mandatory
04		Governance			
Unit	IS/CS/05/L5	Cloud Security Architecture and Design	6	60	Mandatory
05					
Unit	IS/CS/06/L5	Cloud Threat Management and	6	60	Mandatory
06		Monitoring			
Unit	IS/CS/07/L5	Cloud Security Incident Response and	6	60	Mandatory
07		Recovery			_
Unit	IS/CS/08/L5	Cloud Identity and Access Management	6	60	Mandatory
08		(IAM)			
Unit	IS/CS/09/L5	Cloud Data Security and Privacy	6	60	Mandatory
09		,			
			42	420	

Unit 01: Health, Safety and Environment

Unit Reference Number: IS/CS/01/L5

NSQ Level: 5 Credit Value: 2

Guided Learning Hours: 20

Unit Purpose:

This unit covers the safe working practices and procedures to be observed when working in an ICT environment and the statutory requirement, risk assessment procedures and relevant requirements.

Unit Assessment Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

Assessment Methods:

- Observation
- Professional Discussion
- Question and Answer
- Assignment (ASS), etc.

Unit 01: Health, Safety and Environment

Learning		Parferment Criteria (BC)	Ev	vide	ence	e	Re	ef.		
Objective (LO)		Performance Criteria (PC)	Ty	ype			Pa	ıge	No	
LO1	1.1	Dress properly to the work	•							_
Understand safety		environment.								
precautions in	1.2	Comply with health and safety and								_
workplace		other relevant regulations and								
1		guidelines.								
	1.3	Get any cuts, grazes and wounds								
		treated by the appropriate and								
		qualified person.								
	1.4	Report illness and infection promptly								
		to the appropriate persons.								
LO2	2.1	Summarise own responsibility under								
Know how to		the Health and Safety Act as it relates								
maintain.		to own occupation								
personal health and	2.2	State general rules on hygiene that								
hygiene		must be followed.								
• •	2.3	Explain the importance of							\exists	_
		maintaining good personal hygiene.								
	2.4	Describe how to deal with cuts,								
		grazes and wounds and why it is								
		important to do so								
LO3	3.1	State the importance of working in a								
Be able to help		healthy, safe and hygienic workplace.								
maintain a hygienic,	3.2	Promote health, hygiene and safety								
safe and secure		procedures during work.								
workplace.	3.3	Practice emergency procedures								
•		during work.								
	3.4	Ensure that organizational security								
		procedures are followed.								
	3.5	Ensure the disposal of waste and								
		pollution control with organic and								
		inorganic waste disposal methods.								
LO4	4.1	Supervise identification of any								
Prevent hazards		hazards or potential hazards and deal								
and		with these correctly.								
maintain safe and	4.2	State where information about health								
secure workplace		and safety in your workplace can be								
-		obtained.								
	4.3	Describe the type of hazards in the								
		workplace that may occur and how to								
		deal with them.								
	4.4	Identify hazards that can be dealt								
		with personally and those that should								
		be reported to appropriate personnel.								
	4.5	Follow organization procedures on							\exists	_
		how to warn other people about								
		hazards and why this is important								
	4.6	State why accidents and near								_

Learning		Performance Criteria (PC)			ence	;	Re		
Objective (LO)		Terrormance eriteria (1 e)	T	ype			Pa	ıge	No
		accidents should be reported to the							
		appropriate personnel.							
	4.7	Describe the type of emergencies that							
		may happen in the workplace and							
		how to deal with them.							
	4.8	State where to find the first-aid							
		equipment and locate the authorized							
		personnel.							
	4.9	Lift and handle materials in line with							
		work environment procedure.							
	4.10	State other ways of working safely							
		that are relevant to own position							
		responsibility and its importance.							
	4.11	Describe organizational emergencies							
		procedures, in particular fire, and							
		how these should be followed.							
	4.12	State the possible causes for fire in							
		the workplace.							
	4.13	Describe how to minimize the							
		possibility of fire in the workplace.							
	4.14	State where to find the alarms and							
		how to set them up.							
	4.15	State why a fire should never be							
		approached unless it is safe to.							
	4.17	Describe organizational security							
		procedures and why these are							
		important							
	4.18	State the importance of reporting all							
		usual or non-routine incidents to the							
		appropriate personnel.							
Learner's Signature				Date	;			ıI	I
Assessor's Signature			-	Date	;				
IQA's Signature			-	Date	;				
EQA's Signature				Date					

Unit 02: Communication and Interpersonal Skill

Unit Reference Number: IS/CS/02/L5

NSQ Level: 5 Credit Value: 2

Guided Learning Hours: 20

Unit Purpose:

This units seeks to develop the competency of the learner to be able to express oneself fluently in a well-defined manner understandable to the client with problems to solve and with group of colleagues.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Reflective Journal (RJ)
- 5. Assignment (ASS)

Unit 02: Communication and Interpersonal Skill

Learning		Douformanas Critoria (DC)	Evi	den	ce	Ref.					
Objective (LO)		Performance Criteria (PC)	Тур	e			Pag	e No)		
LO1	1.1	Notify client about new systems									
Communicate with		features to keep them up to date.									
Client	1.2	Notify client about new systems									
		features to keep them up to date.									
	1.3	Communicate with the client about									
		any changes on the									
		website/application									
	1.4	Confirm that no request from client									
		is pending.									
	1.5	Communicate to the team about the									
		market trends to ensure that they are									
		kept up to date.									
LO2	2.1	Check that all team members/peers									
Communicate with		are in line with the requirements									
Peer/Team	2.2	Give clear directions to team									
Members		members/peers to follow									
	2.3	Check that a proper mechanism is									
		in place to motivate all team									
		members									
	2.4	Provide a suitable and comfortable									
		work environment for peers and									
		team members									
	2.5	Give report of team members									
		activities									
LO3	3.1	Provide a standard operating									
Communicate with		procedure for communication with									
Managers		the seniors.									
<u> </u>	3.2	Follow all instructions given by									
		seniors in a given job role.									
	3.3	Execute all instructions coming									
		from the seniors using proper									
		mechanism									
	3.4	Communicate all the emergencies									
		and bugs/updates to the relevant									
		Managers									
Learner's Signature	•	-		Dat	e			,			
Assessor's Signature				Dat	e						
IQA's Signature				Dat	e						
EQA's Signature				Dat	e						

Unit 03: Teamwork

Unit Reference Number: IS/CS/03/L5

NSQ Level: 5 Credit Value: 2

Guided Learning Hours: 20

Unit Purpose:

The purpose for this unit is to impact into the learner the necessary skills, knowledge and understanding required to develop team spirit and positive working relationship with colleagues.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Reflective Journal (RJ)
- 5. Assignment (ASS)

Unit 03: Teamwork

Learning Objective (LO)		Performance Criteria (PC)	Ev Ty		enc	ee			ef. age	No)
LO1 Positive working relationship with	1.1	Identify the need for developing positive working relationship with colleagues		-							
colleagues	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and respected									
	1.3	Assist team members when required.									
	1.4	Report to the personnel when request for assistance fall outside area of responsibility									
	1.5	Communicate information to colleagues about own work that might affect others									
LO2 Take responsibility	2.1	Recognize own role and responsibilities within team									
within the team	2.2	Perform individual tasks in line with the team rules and regulations.									
LO3 Compliance with	3.1	Participate effectively in teamwork Work in line with organizational standard									
policy of organisation	3.2	Use organizational code of practice Explain organizational code of conduct									
Learner's Signature		Conduct		Γ	ate	;					
Assessor's Signature		Date									
IQA's Signature		Date									
EQA's Signature				Γ	Date	;					

Unit 04: Cloud Security Compliance and Governance

Unit Reference Number: IS/CS/04/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

Learners will gain the skills to develop, implement, and monitor governance and compliance programs within cloud environments.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 04: Cloud Security Compliance and Governance

Learning		Danfarmanaa Critaria (DC)	Evi	ide	nc	e	Ref.					
Objective (LO)		Performance Criteria (PC)	Ty	pe			Pa	ige]	No)		
LO1	1.1	Demonstrate understanding of								_		
Ensure compliance		frameworks such as ISO 27017,										
with cloud security		ISO 27018, and CIS benchmarks										
standards		for cloud security.										
	1.2	Analyse cloud service providers'										
		(CSP) security policies for										
		compliance.										
	1.3	Develop policies that align										
		organizational requirements with										
		cloud security frameworks.										
	1.4	Evaluate compliance reports and										
		assess gaps in cloud security										
		implementation.										
LO2	2.1	Develop governance models		\Box								
Implement cloud		specific to cloud-based										
security		environments.										
0	2.2	Implement cloud security										
structures		governance tools to monitor										
		compliance.										
	2.3	Advise stakeholders on legal and										
		regulatory aspects of cloud security										
		governance.										
	2.4	Supervise ongoing audits of cloud										
		governance structures.										
	3.1	Analyse risks associated with non-										
Assess and evaluate		compliance in cloud deployments.										
-	3.2	Evaluate risk management										
cloud		strategies to address compliance-										
environments		related vulnerabilities.										
	3.3	Compare different risk management										
_		frameworks for cloud security.										
	3.4	Develop action plans to mitigate										
		identified compliance risks.		\downarrow								
	4.1	Investigate incidents of non-										
Investigate and		compliance and determine root										
support	4.5	causes.										
compliance breach	4.2	Create reports detailing compliance										
resolutions	4.5	breaches.		4					_			
	4.2	Suggest remediation strategies.		_								
	4.4	Support stakeholders in ensuring										
T		corrective actions are taken.		1								
Learner's Signature				D	ate							
Assessor's Signature				D	ate							
IQA's Signature				_	ate							

Learning	Performance Criteria (PC)	Evidence	Ref.
Objective (LO)		Type	Page No
EQA's Signature		Date	

Unit 05: Cloud Security Architecture and Design

Unit Reference Number: IS/CS/05/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit equips learners with the knowledge and skills required to design secure cloud architectures that align with business needs. Learners will focus on developing scalable, secure, and resilient cloud infrastructures.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 05: Cloud Security Architecture and Design

Learning		Porformanco Critorio (DC)	Ev	ride	enc	e	R	ef.		
Objective (LO)		Performance Criteria (PC)	Ty	ре			Pa	age	No)
LOI	1.1	Ensure the cloud architecture								
Develop secure		incorporates security by design								
cloud architectures		principles.								
	1.2	Develop cloud solutions that								
		integrate with security frameworks								
		(e.g., zero-trust models).								
	1.3	Plan secure configurations for								
		multi-cloud and hybrid								
		environments.								
	1.4	Assess the scalability and security								
		of designed cloud architectures.								
LO2	2.1	Analyse the effectiveness of								
Implement security		encryption techniques in cloud data								
controls within		storage and transmission.								
cloud	2.2	Create automation for security								
infrastructures		control implementation across								
		cloud services.								
	2.3	Inspect and compare various cloud								
		security tools for managing								
		configurations.								
LO3	3.1	Compare different cloud security								
Evaluate cloud		architectures to assess performance								
security		and security effectiveness.								
architectural	3.2	Evaluate the impact of architectural								
solutions		decisions on security postures.								
	3.3	Analyse risks associated with cloud								
		security architecture configurations.								
	3.4	Interpret security assessment								
		findings and propose improvements								
		to cloud infrastructures.								
LO4	4.1	Supervise cloud architecture								
Supervise cloud		deployment to ensure alignment								
architecture		with security best practices.								
implementation	4.2	Review implementation progress of								
and processes		security compliance.								
	4.3	Initiate audits of cloud architecture								
		after implementation.								
	4.4	Support continuous improvements								
		based on architecture review.								
Learner's Signature				D	ate					
Assessor's Signature				D	ate					
IQA's Signature				D	ate					
FOA's Signature				D	ate					_
EQA's Signature				ע	alt					

Unit 06: Cloud Threat Management and Monitoring

Unit Reference Number: IS/CS/06/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit equips learners with the knowledge and skills required to operate cloud security monitoring systems and assess threat intelligence to protect cloud assets effectively.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 06: Cloud Threat Management and Monitoring

Learning		Boufoumous Cuitaria (BC)	Evi	dend	e	Ref.					
Objective (LO)		Performance Criteria (PC)	Тур				Pa	ge N	0		
LO1	1.1	Investigate potential attack vectors									
Analyse cloud-		targeting cloud environments.									
specific security	1.2	Analyse vulnerabilities in cloud									
threats and risks		platforms and applications.									
	1.3	Evaluate the potential impact of									
		cloud threats on business									
		operations.									
	1.4	Compare historical threat patterns									
		to predict future risks.									
LO2	2.1	Develop and implement threat									
Implement cloud-		monitoring solutions within cloud									
based threat		services.									
detection systems	2.2	Select and integrate cloud-native									
		tools for automated threat detection.							\perp		
	2.3	Plan strategies for monitoring cloud									
		assets in real-time.		\perp			_		+		
	2.4	Operate threat intelligence									
		platforms to detect emerging									
1.03	2.1	threats.							-		
LO3	3.1	Interpret threat intelligence reports									
Assess and evaluate		to assess the organization's threat									
cloud threat	2.2	landscape.									
intelligence	3.2	Compare various cloud security									
		intelligence feeds for accuracy and effectiveness.									
	3.3	Evaluate the effectiveness of threat									
	3.3	detection systems within cloud									
		environments.									
	3.4	Develop recommendations based on					-				
	3.4	threat intelligence analysis.									
LO4	4.1	Implement measures to improve									
Support		cloud threat management processes.									
continuous threat	4.2	Recommend to stakeholders on									
management in		emerging threats and provide									
cloud		mitigation strategies.									
environments	4.3	Supervise the deployment of									
		updated threat management									
		protocols.					_				
	4.4	Support the continuous									
		improvement of threat monitoring									
		systems.									
Learner's Signature				Date	2						
Assessor's Signature				Date	•						
IQA's Signature				Date							

Learning	Performance Criteria (PC)	Evidence	Ref.
Objective (LO)		Type	Page No
EQA's Signature		Date	

Unit 07: Cloud Security Incident Response and Recovery

Unit Reference Number: IS/CS/07/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit prepares learners to respond effectively to security incidents in cloud environments, handle forensic investigations, and manage recovery processes to minimize operational disruptions.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 07: Cloud Security Incident Response and Recovery

Learning		Performance Criteria (PC)		ide	enc	e	Ref.				
Objective (LO)		Periormance Criteria (PC)	Ty	pe				Pa	age	No)
LO1	1.1	Ensure that cloud incident response									
Plan cloud security		strategies align with organizational									
incident response		objectives.									
strategies	1.2	Develop cloud-specific incident									
S		response protocols.									
	1.3	Create communication plans for									
		incident reporting and escalation.									
	1.4	Initiate cloud incident response									
		simulations to test readiness.									
LO2	2.1	Investigate the root cause of cloud									
Respond to cloud		security breaches.									
security incidents	2.2	Interpret forensic data to understand									
•		incident dynamics.									
	2.3	Support the isolation and									
		containment of compromised cloud									
		systems.									
	2.4	Develop detailed post-incident									
		reports with recommended actions.									
LO3	3.1	Plan the recovery and restoration of									
Implement		cloud services after security									
recovery plans		incidents.									
following cloud	3.2	Explain data integrity and									
security breaches		continuity during cloud recovery									
		processes.									
	3.3	Develop post-recovery plans to									
		strengthen cloud security.									
	3.4	Evaluate the effectiveness of									
		incident recovery efforts.									
LO4	4.1	Supervise root cause analysis									
Supervise post-		(RCA) processes for cloud security									
incident analysis		incidents.									
and process	4.2	Compare incident response									
improvements		outcomes to identify areas for									
		improvement.	\vdash								
	4.3	Support the revision of incident									
		response plans based on lessons									
	4.4	learned.	\vdash								
	4.4	Implement continuous									
		improvements for cloud incident									
I C'		response processes.									
Learner's Signature				Da	ate						
Assessor's Signature				Da	ate						
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Learning	Performance Criteria (PC)	Evidence	Ref.
Objective (LO)		Type	Page No
EQA's Signature		Date	

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Unit 08: Cloud Identity and Access Management (IAM)

Unit Reference Number: IS/CS/08/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit equips learners with the knowledge to implement and manage secure identity and access management (IAM) systems in cloud environments, ensuring proper user access controls are in place.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 08: Cloud Identity and Access Management (IAM)

Learning		P. C. C. C. C. C.	Evidence					Ref.			
Objective (LO)		Performance Criteria (PC)	Type		Page No)			
LO1	1.1	Create IAM policies aligned with									
Develop cloud-		cloud security requirements.									
based IAM policies	1.2	Ensure IAM solutions support									
and frameworks		principles of least privilege and									
		role-based access control (RBAC).									
	1.3	Plan for integration of multi-factor									
		authentication (MFA) in cloud									
		services.									
	1.4	Evaluate the effectiveness of IAM									
		policies.									
LO2	2.1	Implement identity federation									
Implement IAM		strategies across cloud services.									
controls across	2.2	Configure IAM solutions for									
cloud		multiple cloud platforms.									
environments	2.3	Operate IAM tools for continuous									
		access management and monitoring.									
	2.4	Support user lifecycle management,									
		including access revocation.									
LO3	3.1	Evaluate IAM solutions for									
Assess and evaluate		scalability, security, and									
cloud IAM		compliance.									
solutions	3.2	Compare different IAM vendors									
		and their cloud offerings.									
	3.3	Assess the effectiveness of IAM in									
		controlling access to sensitive cloud									
		assets.									
	3.4	Create reports recommending IAM									
		improvements.									
LO4	4.1	Supervise IAM policy enforcement									
Supervise cloud		across cloud platforms.									
IAM	4.2	Observe and monitor access									
implementation		management practices to ensure									
and management		security.									
	4.3	Plan and implement IAM audits to									
		maintain access control compliance.									
	4.4	Initiate remediation processes for									
		IAM-related security gaps.									
Learner's Signature Date											
Assessor's Signature				Ι	Date						
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IQA's Signature				Ι	Date						
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EQA's Signature	Date										

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Unit 09: Cloud Data Security and Privacy

Unit Reference Number: IS/CS/09/L5

NSQ Level: 5 Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit provides learners with the skills to protect data in cloud environments by applying encryption, privacy-enhancing technologies, and ensuring compliance with data privacy laws.

Unit Assessment Requirements/Evidence Requirements:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS)

Unit 09: Cloud Data Security and Privacy

Learning		Performance Criteria (PC)		Evidence Type				Ref. Page No			
Objective (LO)											
LO1	1.1	Explain to ensure cloud data	•								
Ensure data		protection practices comply with									
protection		laws such as NDPR, GDPR and									
compliance in											
cloud	1.2	1.2 Develop cloud data governance									
environments		frameworks to align with regulatory									
		requirements.									
	1.3	Implement data residency and									
		protection policies in multi-cloud									
		environments.									
	1.4	Plan for regular audits of cloud data									
		security practices.									
LO2	2.1	Select and implement encryption									
Implement		technologies for cloud data storage									
encryption and	2.2	and transfer.									
data protection	2.2	Develop key management systems									
solutions in the	2.2	for cloud encryption solutions.									
cloud	2.3	Utilize encryption and privacy tools									
		to ensure data confidentiality in the cloud.									
	2.4										
	2.4	Support continuous encryption management across cloud									
		platforms.									
LO3	3.1	Evaluate privacy-enhancing									
	J.1	technologies (PET) used in cloud									
Assess and evaluate		deployments.									
cloud data privacy controls	3.2	Assess risks related to data privacy									
Controls	J. <u>2</u>	breaches in the cloud.									
	3.3	Compare data protection controls									
	0.0	across different cloud service									
		providers.									
	3.4	Inspect cloud privacy policies for									
	- -	compliance.									
LO4	4.1	Supervise the implementation of									
Supervise data		data privacy measures in cloud									
security processes		environments.	L	L	L	L					
and privacy	4.2	Plan for regular assessments of									
compliance		cloud data privacy compliance.									
•	4.3	Support post-breach data recovery									
		and privacy re-establishment.									
	4.4	Initiate processes for addressing									
		data privacy violations in the cloud.									
Learner's Signature Date											
Assessor's Signature Date											
IQA's Signature Date											

Learning Objective (LO)	Performance Criteria (PC)	Evidence Type	Ref. Page No
EQA's Signature		Date	

CIRITIQUE TEAM LIST

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