

# NATIONAL SKILLS QUALIFICATION

# LEVEL 4

# TITLE: ARTIFICIAL INTELLIGENCE

**YEAR:** 

2024

#### **NSQ LEVEL 4 - Artificial Intelligence**

#### **GENERAL INFORMATION**

#### **QUALIFICATION PURPOSE:**

The Qualification aims to equip learners with appropriate AI skills, focusing on designing and implementing elementary AI solutions

#### **QUALIFICATION OBJECTIVES**

To achieve this qualification, the operator should be able to:

- Develop a Comprehensive Understanding of AI Fundamentals.
- Explore Ethical Considerations in AI
- Integrate AI with Big Data
- Develop a Comprehensive Understanding of Machine Learning
- Gain Proficiency in Deep Learning Techniques
- Explore Natural Language Processing
- Understand Computer/Machine Vision Solutions
- Understand Generative AI Models

## **Mandatory Units**

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
Unit 001	ICT/GSS/001/L3	Occupational Health and Safety	1	10	Mandatory
Unit 002	ICT/GSS/002/L3	Teamwork	1	10	Mandatory
Unit 003	ICT/GSS/003/L3	Communication	1	10	Mandatory
Unit 004	ICT/AI/4/004/L4	Fundamentals of Artificial Intelligence	2	20	Mandatory
Unit 005	ICT/AI/4/005/L4	Artificial Intelligence Ethics	2	20	Mandatory
Unit 006	ICT/AI/4/006/L4	Big Data Management	2	20	Mandatory
Unit 007	ICT/AI/4/007/L4	Machine Learning	2	20	Mandatory
Unit 008	ICT/AI/4/008/L4	Introduction to Deep Learning	2	20	Mandatory
Unit 009	ICT/AI/4/009/L4	Natural Language Processing	2	20	Mandatory
Unit 010	ICT/AI/4/010/L4	Introduction to Computer/Machine Vision	2	20	Mandatory
Unit 011	ICT/AI/4/011/L4	Fundamentals of Generative AI	2	20	Mandatory
TOTA	L		19	190	1

#### **NOTE:**

## **Mandatory Units**

Learners must complete all mandatory units to gain advanced skills in Artificial Intelligence. These units are designed to provide a comprehensive foundation in AI principles and practices, encompassing both theoretical knowledge and practical application. The credit hours for mandatory units are non-negotiable and must be fully completed to obtain the NSQ Level 4 Artificial Intelligence qualification.

Total Credit Hours from Mandatory Units: 190

Unit 001: OCUPATIONAL HEALTH AND SAFETY

**Unit Reference Number: ICT/GSS/001/L3** 

NSQ Level: 3

**Credit Value: 1** 

**Guided Learning Hours: 10** 

**Unit Purpose:** To equip learners with the knowledge and skills to implement and maintain safe working practices in the IT environment, ensuring personal and team safety while adhering to industry regulations and standards.

#### Unit assessment requirements/ evidence requirements:

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

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

## **UNIT 001: Occupational Health and Safety**

LEARNING		PERFORMANCE CRITERIA		ider	nce	,				nce	
OBJECTIVE			Ty	pe				Ke No		Pag	e
(LO)		The learner can:						110	•		
The learner		The leather can.									
will:											
LO 1:	1.1	Explain key OHS legislation and		Т				T	Ī		
Understand	1.1	regulations relevant to the IT sector.									
Workplace	1.2	Identify the roles and responsibilities of					-				
Health and	1.2	individuals and organizations in									
Safety		maintaining a safe work environment									
Regulations	1.3	Describe the process for reporting					-				
	1.5	health and safety risks and incidents.									
LO 2:	2.1	Identify common hazards in IT work									
Identify		environments, including electrical,									
Workplace		ergonomic, and data-related risks									
Hazards and	2.2	Assess the severity and likelihood of									
Implement		potential hazards in specific IT tasks.									
Control	2.3	Implement appropriate control									
Measures		measures, such as safe cabling									
		practices, ergonomic workstation setup,									
		and electrical safety protocols.									
LO 3:	3.1	Demonstrate the correct procedure for									
Apply		responding to workplace emergencies,									
Emergency		such as electrical fires or equipment									
Procedures and		malfunctions.									
First Aid in the	3.2	Perform basic first aid techniques,									
Workplace		including treating minor injuries and									
		using first aid equipment									
	3.3	Communicate and coordinate									
		effectively with emergency services									
		and other relevant personnel during a									
		workplace incident.									
			_	_		_		_		_	
Learner's Signatu	re			Da	te						
Assessor's Signat	ure			Da	ite						
					-						
IQA's Signature				Da	te						
EQA's Signature				Da	ite						

Unit 002: Teamwork

**Unit Reference Number: ICT/GSS/002/L3** 

NSQ Level: 3

**Credit Value: 1** 

**Guided Learning Hours: 10** 

**Unit Purpose:** To develop learners' abilities to work effectively within IT teams, fostering collaboration, problem-solving, and the achievement of shared goals.

#### Unit assessment requirements/ evidence requirements:

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

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

## **UNIT 002: Teamwork**

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Eviden Type	ice		nce Page
(LO)			Турс		No	1 ugc
Th. 1		The learner can:				
The learner will:						
LO 1:	1.1	Identify the different roles and				
Understand the		functions within an IT team (e.g.,				
Roles and		network engineers, system				
Responsibilities		administrators, software developers).				
within a Team	1.2	Describe the key responsibilities and				
		contributions of each team member.				
	1.3	Recognize the importance of each role				
		in achieving the team's objectives.				
LO 2:	2.1	Demonstrate techniques for effective				
<b>Foster Positive</b>		interpersonal communication and				
Working		conflict resolution in a team				
Relationships		environment.				
within a Team	2.2	Show the ability to provide				
		constructive feedback and actively				
	2.2	listen to others' contributions		-		
	2.3	Promote inclusivity and collaboration				
		among team members to ensure				
102	3.1	participation and engagement from all.		+	$\vdash$	
LO 3:	3.1	Participate in group discussions to				
Contribute to		identify and analyse IT-related problems.				
Team Problem-	3.2	Suggest innovative solutions and				
Solving and Decision-	3.2	support team decision-making				
Making		processes.				
MIAKING	3.3	Evaluate the effectiveness of team				
		decisions and propose improvements				
		where necessary.				
						1
Learner's Signatu	re		Dat	te		
Assessor's Signat	ure		Da	te		
IQA's Signature			Dat	te		
EQA's Signature			Da	te	_	

**Unit 003: Communication** 

**Unit Reference Number: ICT/GSS/003/L3** 

NSQ Level: 3

**Credit Value: 1** 

**Guided Learning Hours: 10** 

**Unit Purpose:** To enhance learners' communication skills, enabling them to convey technical information effectively and collaborate with both technical and non-technical stakeholders.

Unit assessment requirements/ evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)

2. Question and Answer (QA)

3. Witness Testimony (WT)

4. Assignment (ASS), etc.

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## **UNIT 003: Communication**

LEARNING OBJECTIVE (LO) The learner		PERFORMANCE CRITERIA  The learner can:		vide ype	ence				f.	nce Pag	;e
will: LO 1:	1.1	Explain IT concepts, procedures, and									
Communicate		solutions in a manner appropriate to									
Technical		the audience, whether technical or non-									
Information	1.2	technical.					-				
Clearly and	1.2	Use industry-standard terminology									
Accurately		correctly when describing technical processes									
	1.3	Adapt communication methods to suit									
		the context, such as written reports,									
		emails, or verbal presentations.									
LO 2:	2.1	Demonstrate proficiency in using									
<b>Utilize Digital</b>		digital tools for communication, such									
Communication		as email, messaging platforms, and									
Tools		collaboration software (e.g., Slack,									
Effectively	2.2	Teams).  Adhere to best practices for					-				
	2.2	professional digital communication,									
		including email etiquette and secure									
		file sharing.									
	2.3	Use collaborative tools to share and									
		receive feedback on documents, code,									
		or project updates.									
LO 3:	3.1	Demonstrate active listening skills									
Listen and		during team discussions or client									
Respond	2.2	meetings.					_				
Appropriately .	3.2	Respond to questions, concerns, and									
in a	3.3	feedback clearly and effectively.  Clarify misunderstandings and				$\vdash$	-			-	=
Professional Context	ر. ر	summarize discussions to ensure									
Context		mutual understanding.									
			ı	1	ı			ı			$\neg$
Learner's Signatur	e			D	ate						
Assessor's Signatu	ıre			D	ate						
IQA's Signature				D	ate						
EQA's Signature			Date								

Unit 004: Fundamentals of Artificial Intelligence

**Unit Reference Number: ICT/AI/004/L4** 

NSQ Level: 3

**Credit Value: 2** 

**Guided Learning Hours: 20** 

**Unit Purpose:** Equip learners with the understanding of AI concepts, and applications across industries.

#### Unit assessment requirements/ evidence requirements:

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

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

## UNIT 004: FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

LEARNING OBJECTIV E (LO) The learner will:		PERFORMANC E CRITERIA  The learner can:  Explain the fundamental concept of AI			Evidenc eType							R	vide ef. eNo	Pa
LO 1:	1.1	Explain the fundamental concept of AI												
Understand the concept and principles of	1.2	<b>Describe</b> the core principles of AI Technology												
AI	1.3	Classify AI according to functionality and capability.												
LO 2: Applications	2.1	<b>Recognize</b> the diverse applications of AI across industries.												
of AI across	2.2	Identify AI products or agents												
industries	2.3	Analyze the Impact of AI on Industry- Specific Operations												
LO 3:	3.1	Create a Object Storage resource												
Demonstrate	3.2	Import dataset model.												
knowledge of	3.3	<b>Build</b> an AI model using Auto AI												
AI Projects	3.4	<b>Execute</b> a prediction experiment for an AI model												
	3.5	Save a model as a Jupyter Notebook												
Learner's Signat														
Assessor's Signa	ature		Da	te:										
IQA's Signature	1		Da	te:										
EQA's Signature	e		Da	te:										

## **Unit 005: Artificial Intelligence Ethics**

Unit Reference Number: ICT/AI/005/L4

NSQ Level: 3

**Credit Value: 2** 

**Guided Learning Hours: 20** 

**Unit Purpose:** This unit aims to prepare learners to develop AI solutions that adhere to ethical standards.

#### **Unit assessment requirements/ evidence requirements:**

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

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

## **UNIT 005: ARTIFICIAL INTELLIGENCE ETHICS**

LEARNING OBJECTIV E (LO) The learner will:		PERFORMA NCE CRITERIA The learner	Evidenc eType	Evidence Ref. Pa geNo.
101	1.1	can:		
LO 1: Ethics in	1.1	<b>Identify</b> the five pillars of AI ethics		
Artificial	1.2	<b>Describe</b> fairness in AI		
Intelligence	1.3			
Intelligence	1.3	<b>Describe</b> protected attributes		
	1.4	<b>Identify</b> privileged groups and unprivileged groups		
	1.5	Explain AI bias		
LO 2: Explore	2.1	<b>Identify</b> Key Ethical Issues in AI Development		
Ethical Consideratio	2.2	<b>Evaluate</b> the Impact of AI on Society and Human Rights		
ns in AI.	2.3	<b>Identify</b> Solutions to Address Ethical Challenges in AI		
	2.4	<b>Promote</b> awareness of the ethical implications of AI.		
LO 3 Analyze	3.1	Assess Potential Bias and Discrimination in AI Algorithms		
ethical implications	3.2	<b>Examine</b> Privacy Concerns Related to AI Data Usage		
of AI	3.3	<b>Evaluate</b> the Accountability and Transparency of AI Systems		
Learner's Signa	ture		Date:	
Assessor's Sign	ature		Date:	
IQA's Signature	e		Date:	
EQA's Signatur	re		Date:	

## **Unit 006: Big Data Management**

Unit Reference Number: ICT/AI/006/L4

NSQ Level: 4

Credit Value: 2

**Guided Learning Hours: 20** 

**Unit Purpose:** This unit ensures that learners are equipped to handle large-scale data challenges using AI.

#### Unit assessment requirements/ evidence requirements:

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

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

## **UNIT 006: BIG DATA MANAGEMENT**

LEARNING OB (LO)		PERFORMANCE CRITERIA		vide ype		e		Re	Evidence Ref. Pa No.		
The learner will:		The learner can:		<u> </u>	I					1	
LO 1: Understand Big data and its technologies	1.1	Explain Big data and popular big data technologies such as Hadoop, Spark, and NoSQL databases that are commonly used in AI applications.									
	1.2	Describe the Applications and Benefits of Big Data Across Sectors									
	1.3	Apply AI techniques in big data environments.									
LO 2: Understand	2.1	<b>Demonstrate</b> Common Data Preprocessing Techniques.									
Data Preprocessing	2.2	<b>Identify</b> Outliers and Anomalies in Datasets									
	2.3	<b>Explain</b> how to preprocess large datasets for AI.									
LO 3: Examine the	3.1	Identify Key Challenges in Real-World Scenarios									
real-world	3.2	<b>Perform</b> real-world tasks where AI and big data are integrated.									
problems	3.3	<b>Implement</b> a Recommendation systems with customers large dataset.									
Learner's Signatu	ıre	Date:									
Assessor's Signat	ture	Date:									
IQA's Signature		Е	ate	:							
EQA's Signature		Date:									

## **Unit 007: Machine Learning**

**Unit Reference Number: ICT/AI/007/L4** 

NSQ Level: 4

Credit Value: 2

**Guided Learning Hours: 20** 

**Unit Purpose:** This unit ensures that learners will be proficient in the building of learning models.

#### Unit assessment requirements/ evidence requirements:

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

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

**UNIT 007: Machine Learning** 

LEARNING OBJECT	CTIVE (LO)	PERFORMANCE CRITERIA		vid ype	-	ee		Evidence Ref. Pag No.				
The learner will.								110	J.			
		The learner can:										
LO 1:	1.1	Explain the core concepts										
Study the concepts		of Machine Learning.										
of machine learning.	1.2	<b>Identify</b> the types of										
		machine learning										
	1.3	Explain the Workflow of a										
	1.4	Machine Learning Model										
	1.4	<b>Describe</b> Common Machine Learning										
		Algorithms and Their										
		Applications										
LO 2:	2.1	Classify different machine										
Perform basic		learning tasks into										
Machine Learning		supervised, unsupervised,										
task.		or reinforcement learning										
		categories based on given										
		scenarios.										
	2.2	Select appropriate										
	2.2	Machine Learning										
		Algorithm.										
	2.3	Implement the										
		Preprocessing of Data to Fit the Chosen Model										
		Fit the Chosen Model										
	2.4	Implement the Machine										
		Learning Model										
LO 3:	3.1	Perform prediction of										
	3.1	housing prices with the										
Perform a basic		right algorithm.										
Machine Learning	3.2	Classify Handwritten										
tasks (Project)		Digits (MNIST Dataset)										
	3.3	<b>Perform</b> sentiment										
		Analysis on Text Data										
Learner's Signature		D	ate	:								
Assessor's Signature		ח	ate	:								
IQA's Signature		D	ate	:								
EQA's Signature		Date:										

## **Unit 008: Introduction to Deep Learning**

Unit Reference Number: ICT/AI/008/L4

NSQ Level: 4

**Credit Value: 2** 

**Guided Learning Hours: 20** 

**Unit Purpose:** Equip learners with a good understanding of Deep Learning frameworks and artificial neural networks.

#### Unit assessment requirements/ evidence requirements:

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

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

## **UNIT 008: INTRODUCTION TO DEEP LEARNING**

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		vid ype		e		Evidence Ref. Page No.				
The learner will:		The learner can:										
LO 1:	1.1	Explain the concept of deep										
Understand deep		learning.										
learning	1.2	<b>Identify</b> deep learning models.										
	1.3	Distinguish between artificial										
		intelligence, machine learning, and										
		deep learning.	- 5									
LO 2:	2.1	<b>Identify</b> AI platforms for deep learning.										
Use no-code AI	2.2	<b>Explain</b> the steps required to use 2.1										
platforms for deep		above.										
learning.	2.3	Create any given specific/custom										
		image classification models.										
LO 3:	3.1	<b>Implement</b> Image Classification with a										
Execute a deep		Convolutional Neural Network (CNN)									_	
learning project.	3.2	Use the MNIST dataset to classify										
rearming project.		handwritten digits (0-9) using a simple fully connected neural network.										
	3.3	Build Recurrent Neural Network									-	
	3.5	(RNN) to classify the sentiment										
		(positive or negative) of movie reviews										
		from the IMDb dataset.										
Learner's Signature		D	ate	:								
Assessor's Signature		D	Date:									
IQA's Signature		D	ate	:								
EQA's Signature		D	ate	:								

## **Unit 009: Natural Language Processing**

**Unit Reference Number: ICT/AI/009/L4** 

NSQ Level: 4

**Credit Value: 2** 

**Guided Learning Hours: 20** 

**Unit Purpose:** This unit aims to equip the learner with essential NLP tasks like sentiment analysis, machine translation, and text summarization.

#### Unit assessment requirements/ evidence requirements:

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

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

## **UNIT 009: NATURAL LANGUAGE PROCESSING**

LEARNING OBJECTIVE (LO)				vid ype		e			e <b>f.</b> ]	ence Page
The learner will:										
LO 1:	1.1	Explain the concept of NLP								
Study the concept and principle of										
Natural Language	1.2	<b>Describe the</b> principles of NLP								
Processing (NLP)	1.3	Identify NLP Models								
LO 2:	2.1	Explain the NLP terms/activities								
Examine Natural		such as tokenization, stopword removal,								
Language	2.2	stemming, etc.								
Processing Techniques	2.2	Methods  Methods	monstrate Text Preprocessing thods							
	2.3	Analyze the Performance of NLP Models								
LO 3:	3.1	Explain the basics of text preprocessing and								
Understand more		sentiment analysis.								
key techniques	3.2	<b>Describe</b> the steps required in NLP								
		situation, such as Text Classification								
		Model/techniques, Named Entity Recognition (NER) Techniques, etc.								
	3.3	Implement Sentient analysis on a given text dataset.								
LO 4	4.1	Perform Text Tokenization using								
Implement NLP using both python		python programming and no-code AI platforms.								
and no-code AI	4.2	<b>Implement</b> sentient analysis on a given text dataset using Python script.								
(Project)	4.3	Execute Named Entity Recognition								
		(NER) using python programming and no-code AI platforms.								
Learner's Signature		•	ate	:						
Assessor's Signature		D	ate	:						
IQA's Signature		D	ate	:						
EQA's Signature	Date:									

### **Unit 010: Fundamentals of Computer/Machine Vision**

Unit Reference Number: ICT/AI/010/L4

NSQ Level: 4

Credit Value: 2

**Guided Learning Hours: 20** 

**Unit Purpose:** Train learners in the application of AI to image and video data, focusing on tasks such as object detection, image recognition, and video analysis.

#### **Unit assessment requirements/ evidence requirements:**

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

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

## UNIT 010: FUNDAMENTALS OF COMPUTER/MACHINE VISION

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type					vide ef. ] o.	_	_
The learner will:	T	The learner can:									
LO 1:	1.1	<b>Explain</b> the basic concepts in computer									1
Understand the		vision									
concept of computer vision	1.2	Describe various computer vision techniques and their applications									1
VISION	1.3	<b>Demonstrate</b> Simple Image Processing Tasks									
LO 2: Understand Computer	2.1	Identify Core Computer Vision Algorithms									
Vision Algorithms	2.2	Implement 2.1	nent 2.1								
	2.3	<b>Evaluate</b> the Performance from 2.1.	the Performance from 2.1.								
LO 3:	3.1	Create a simple image classification									
Develop Models of		model using neural networks.									
Computer/Machine	3.2	<b>Develop</b> Face Detection with python, or									
Vision		OpenCV, YOLO, etc.									
	3.3	Implement Object Detection using									
		python, or Pre-Trained YOLOv3,									1
		Microsoft Azure ML Studio, etc.									
Learner's Signature		D	Date:								
Assessor's Signature		D	Date:								
IQA's Signature		D	ate	:							
EQA's Signature		D	ate	:							

#### **Unit 011: Fundamentals of Generative AI**

Unit Reference Number: ICT/AI/011/L4

NSQ Level: 4

Credit Value: 2

**Guided Learning Hours: 20** 

**Unit Purpose:** The learner will gain comprehensive understanding of generative AI, including the principles behind generative models, their applications, and the ability to design, train, and evaluate generative AI systems.

#### Unit assessment requirements/ evidence requirements:

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

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

## UNIT 011: FUNDAMENTALS OF GENERATIVE AI

LEARNING OBJECTIVE (LO The learner will:	<b>D</b> )	PERFORMANCE CRITERIA  The learner can:		vid ype		e			e <b>f.</b> ]	nce Page	
LO 1:	1.1	Explain the Core Concepts of									
Understand		Generative AI									
Generative	1.0	D 9 4 1 1									
Artificial	1.2	<b>Describe</b> the basic components and functioning of generative models.									
Intelligence	1.3	Explain the differences between									_
		generative and discriminative models.									
LO 2:	2.1	<b>Identify</b> various applications of									
Examine the		generative AI in diverse fields									
various	2.2	Describe Applications of Generative AI									
Applications of	2.3	Evaluate the Impact of Generative AI									
Generative AI		Applications									
LO 3:	3.1	<b>Develop</b> Images using a Pre-Trained									
Demonstrate		Generative Adversarial Network (GAN)									
Practical Use of	3.2	<b>Develop</b> Text using GPT-3 (or similar model)									
Generative AI	3.3	Create Art using a Style Transfer Model									
Tools											_
Learner's Signatur	·e	D	Date:								
Assessor's Signatu	ıre	D	ate	:							
IQA's Signature		D	ate	:							
EQA's Signature		D	ate	:							

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